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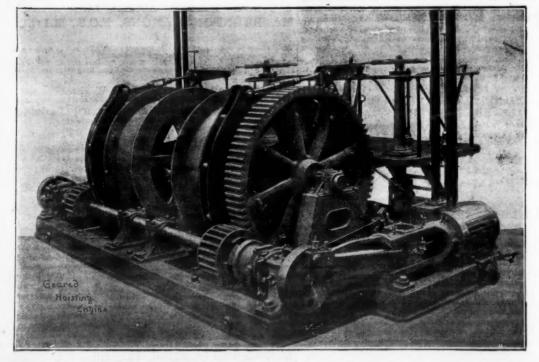
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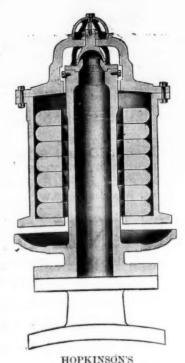
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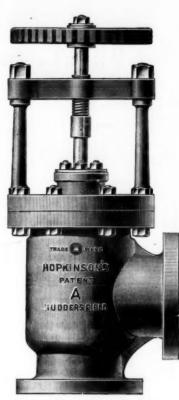
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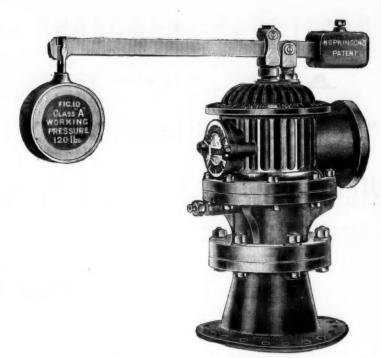
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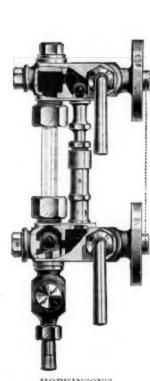
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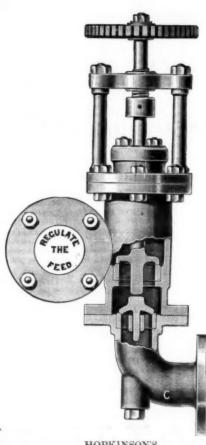
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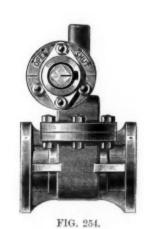
HOPKINSON'S FIG. 401.



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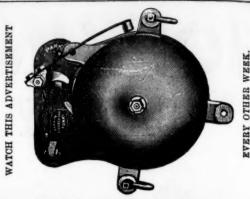
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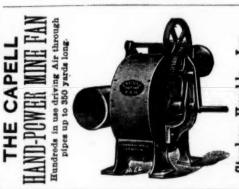
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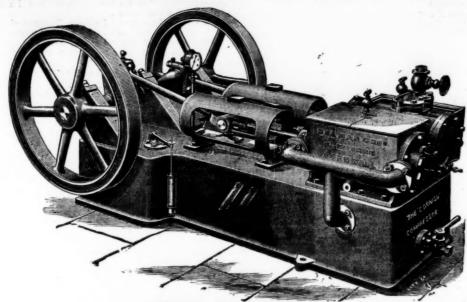
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AWARDS: CRYSTAL PALACE, 1890; TASMANIA, 1891; KIMBERLEY, 1892.

he Clarkson-Stanfield Concentrator (Limited).

In the CLARKSON-STANFIELD process of Concentrating Refractory and Complex Ores no water is required; dust is reduced to a minimum; the loss of Mineral through water-borne Slimes is obviated.

OUTPUT 1 TO 2 TONS PER HOUR, ACCORDING TO SIZE OF MACHINE. CONCENTRATOR TO BE SEEN IN OPERATION AT THE COMPANY'S ONLY ADDRESS

6. COLONIAL AVENUE, MINORIES, LONDON, E.

The Machine is superior to Sieves for Sizing Homogeneous Substances, such as Emery, Sand, and Powders, and may be used to great advantage in the preparation of Ochre.

N.B.—The owners of the Carndochan Mine, near Bala, North Wales, will, by arrangement, show their CLARKSON-STANFIELD plant working on a Refractory Low Grade Gold Ore.

NEW PATENTS.

LIST of APPLICATIONS for New Patents relating to Mining Metallurgical, Engineering. Railway and kindred matters, specially compiled from official sources for the "Mining Journal" by Messrs Rayner and Company, Patent Agents, 7, Chancery Lane, London, W.C., who will forward all information regarding them free on application.

15129 Thomas Fitt and Arthur Johnson, The Priory, Hareford, -A non-exhausting sir engine —August 12.

15136 John Smith, Fairsea', Wrotham, Kent.-Improvements in rotary engines.—August 12.

15144 Alfred Shedlock, 11, Southampton Buildings, Chancery Lane, London.—Improvements in apparatus for separating and concentrating ores and other materials in the pulverised or granular state,—August 12.

ores and other materials in the pulverised or granular state,—
August 12.

15168 Robert Richardson, 7, Bonnytown Terrace, Govan, Renfrew.—Directacting steam pumps. August 13.

15221 James Taggart Halsey, 45, Bouthampton Bulldings, Chancery Lane,
London,—Improvements in steam engines.—August 13

15336 Oliver Imray, 28, Bouthampton Buildings, Chancery Lane, London,—
An improvement in water tube boilers—August 13.

15333 Governments in water tube boilers—August 13.

15324 Wilselm Londonit, 313, High Holborn, London.—Improvements in
farnaces for locomotive, marine, and other steam generators.—
August 14.

furnaces for locomotive, marine, and August 14.

18391 Moses Beckley and Charles Emile Bocquet, 69, Becklow Road, Shepherd's Bush, London,—An automatic regulator of feedwater to steam herd's Bush, London,—An automatic regulator of feedwater to steam

herd's Bush, London.—An automatic regulator of feedwater to steam boilers.—August 14.

15319 Waiter Banual Payne, Commercial Street, Halifax.—Improvements in oil motor engines.—August 15.

15316 James William Butler, 28. Southampton Buildings, Chancery Lane, London.—Improvements in apparatus for extracting gold by means of mercury.—August 15.

15372 Alfred Buckingham Ibbotson, 45. Southampton Buildings, Chancery Lane, London.—Improvements in railway rails.—August 15.

15397 Charles Bowers, 37, Market Street, Droyladen.—An improvement in relation to twist drills for buring metals and other hard substances.—August 18.

August 18.

Stephen Ballard, 77, Colmore Row, Birmingham,—Improvements in kers and chairs for railways,—August 16.

15518 Carl Frederick Claus, jun., 1, Queen Victoria Street, London,—Improvements in the treatment of complex ores for the separation of gold, silver, and lead therefrom.—August 17.

SPECIFICATIONS PURLISHED.

14155, Hood, extracting metals, 180*; 14185, Howard and Collier, blast furbaces, 1894; 18750, Hichard, water tube boliers, 1894; 18508, Bu'l, cutting metal bars, 1894; 18,107, Hichards, railway rail joint, 1894; 18398, Hosking, separating ores, &c., 1894; 7868, Hult, C. A. and C. W., steam engines, 1895; 11883, Golder, securing rails to sleepers, 1895.

neery Lane, London, at 10d. each, including postage,

JOINT-STOCK COMPANIES.

NEW REGISTRATIONS,

THE following are among the joint-stock companies registered at Somerset House since our last notice:—

Honry P. Cookill and Sons (Limited).—R-gistered by Waterlow Bruthers and Lavton (Limited), Birchin Lake, E.U., with a capital of £15,00 in £10 shares. Object: To acquire as a going concern the business of corriers and belting manufacturers, as hitherto carried on at Cleckheston, Yorkshire, under the style of Henry P. Cockill and Bons; to enter into an agreement with the vendors; and to carry on and extend the said business in all its branches. The directors are H. Cockill and E. Cockill, Qualification, £200; ordinary director's qualification, £100. Remuneration, £150 per annum each.

Thomas (Western Australia) Syndicate (Limited).—Registered by Batchelor and Cousins, 13, Waltrook, E.C., with a capital of \$5000, in \$50 shares. Object: To seek for and secure openings for the employment of capital in Western Australia or elsewhere. Registered without Articles of Association.

Association.

Mallina Proprietary (Limited).—Registered by Jordan and Sons, 12°, Chancery Lane, W.C., with a capital of £150,000, in 5s. shares. Object: To adopt and carry into effect certain undetailed agreements for the acquisition, by purchase or otherwise, of certain mining claims, mines, mining, water and other rights, grants, leases, claims, concessions, options, metalliferous land, &c., in Western Australia or elsewhere; to develop and turn to account the same, and to carry on the business of a mining, milling, and smelting company in all its branches.

Alamo Syndicate (Limited).—Registered by F. H. Sykes, 44, Coleman Street, E.C., with a capital of £10.0 in £1 shares. Object: To prospect for, open, work, explore, develop, and generally turn to account, diamond, gold, silver, copper, coal, iron, and other mines. Most of the regulations of Table & apply.

Canadian Exploration Syndicate (Limited) —Registered by H. E. terman, 22, Bartholomew Close, E.O., with a capital of £2000, in £50 shares. biject: To search for, prospect, and explore mines and lands in Canada, the inited Kingdom, Africa, or elsewhere. Registered without Articles of Association. Registered of the companion of t

Arrow Proprietary Gold Mines WA. (Limited).—Registered by Travers, Smith, and Co., 4, Throgmorton Avenue, E.O., with a capital of £155,000, in £1 sheres. Object: To adopt and carry into effect an agreement expressed to be made between G.P. Doolette of the first part and this company of the other part, to acquire certain mines, mining rights, grants, icases, claims, options, concessions, metalliferous land, &c. situate at Broad Arrow, in the colony of West Australia; to develop and turn to account the same, and to carry on the business of a mining, milling, smelting, and m-tallurgical company in all or any of its branches.

pany in all of any of its branches.

teals, 1884; 18185, Howard and Collier, blast furl, water tube boilers, 1884; 18198, Hosking, febolson, railway rail joint, 1894; 18198, Hosking, 7868, Ruit, C. A. and O. W., steam engines, 1895; to sleepers, 1895.

to sleepers, 1895.

ublished may be had of Messrs. Rayner and Co., 37.

10d. each, Iucluding postage,

CONTRACTS OPEN:

FOR MINE, QUARRY, RAILWAY, AND ENGI-NEERING WORK, STORES, &c.

We shall be obliged by being promptly placed in possession of particulars regarding contracts open for competition, and of the results of successful tenders. In the latter case contract prices should be grown.

The date given is that by which tenders must be delivered, in nearly all cases further information can be obtained on application at the addresses gives. In applying for such the name of " The Mining Journal" should be montioned as the original source of the information, concerning which further particulars are required.

HOME CONTRACTS.

Pipes, September 2 (Christchurch, Hants).—For the supply and delivery of \$3.0 yards of 12 inch accide pipes at Christchurch and Bournemouth Hast Stations, for the West Hampshire Water Company. The specification and particulars can be seen at the office of Mr. R. St. George Moore, M.I.C.E., 17, Victoria Street, S.W., engineer to the company.

toris Street, S.W., engineer to the company.

Railway Construction, September 2 (Budisigh Salterton, Deven).—

For the construction of a railway from the Sidmouth branch of London and South-Western Railway to Budieigh Salterton, being a length of about 6 mires 4 chains, for the Badieigh Salterton Railway Company. Plans and specifications may be seen, and forms of tender and bills of quantities obtained, at the office of Mr. William Clarke, engineer, 45, Parliament Street, Westminster.

Sinking Well. September 3 (S. Albans).—For sinking a well at Levertock Green, for the St. Alban Sural District Council, according to specification to be seen at the office of Mr. Woodman, surveyor, St. Albans,

Coal September 3 (Manclester), — For the supply of good burgy to all or any of the eight baths of the city, delivered at the baths, for 12 months com-mencing September 1, for the Baths and Wash-houses Committee.

menoing September 1, for the Baths and Wash-houses Committee.

Piping, September 4 (London, S.E.).—For the supply of 800 feet castiron piping, &c., for the Gordon Road Workhouse, Feekham, for the guardias
of Camberwell. Furms of tender may be obtained upon application to Mr.
Charles S Everens, oler, Guardian's Offices, 29, Feckham Road.

Rails, September 12 (London, E.C.)—For the supply and delivery of (! steel steel); fishplates, fishbolts, nuts, and washers; (2) pressed steel sleaper
and steel keys, for the Barsi Light Railway Company (Limited) in accordance
with the specifications and drawings to be seen at the company's office.

Coal Sentember 13 (Rockster).—For the supply of steam and for that

Coal, September 13 (Bockester).—For the supply of steam coal for their Bitrood waterworks for 12 months ending September 29, 1898, for the Corpora-tion of Bochester. Specification and form of tender can be obtained as the City surveyor's office, Gulidhall, Rochester.

Railway Construction. September 24 (Manchester).—For the con-truction of a branch line to the Manchester Ship Canal, for the Lancashire and Yorkshire Bailway Company. Plans may be seen, and quantities, with owns of tender, obtained on application at the Engineer's Office, Hunt's Bank, fanchester, on and after 28th lost.

Manchester, on and after 18th 10st.

Quay Wall, Soptembor 26 (Pools) —For the construction of a new quay wall, and dredging in connection therewith, for the Harbour Trustees. Copies of specification and bill of quantities may be obtained on application to the engineers, Messrs. Kinspple and Jaffrey 3. Victoris Street, Westminster, where drawings of the works may be seen after 31st inst.

IRON AND STEEL INSTITUTE.

THE BIRMINGHAM MEETING.

THE business of the autumnal meeting of the Iron and Steel Steel Institute was brought to a close on Thursday in last week at the Council House. The PRESIDENT (Sir David Dale) again presided, and there was a large attendance of members.

Nickel, Steel, and Its Advantages over Ordinary Steel. Mr. H. A. Wiggin read a paper on "Nickel Steel, and Its Advantages over Ordinary Steel." He acknowledged the great Mr. H. A. Wiggin read a paper on "Nickel Steel, and its Advantages over Ordinary Steel." He acknowledged the great indebtedness they were under to Mr. James Riley, of Glasgow, for what he had done in nickel steel, remarking that Mr. Riley first brought the metal before the notice of the world. He (Mr. Wiggin) could not help thinking that Mr. Riley must share with many others deep regret that England at the present moment was the only first-class power which was not making use largely of that remarkable metal. The use of steel in place of wrought-iron for structural work, shipbuilding, rails, and other purposes, including armour and forgings for guns, met with great opposition; but it made its way surely if slowly, and now wrought-iron had become almost a thing of the past for structural and other purposes, as steel of less section and weight gave the same strength and stiffness with as great an elongation and safety. What they had to consider was whether the reasons which led to the use of steel could not now be advanced with the same force in favour of the use of a better advanced with the same force in favour of the use of a better material than ordinary steel. Nickel steel containing about 31 per cent. of nickel was now being produced with the same elongation, a tensile strength fully 30 per cent. higher than ordinary steel and an elastic limit at least 75 per cent. higher. That material, although comparatively a new article of manufacture, possessed great uniformity, the nickel being uniformly distripossessed great uniforalty, the nickel being uniformly distributed throughout the ingot, and not liable to segregation like other ingredients of the steel. For building and structural material the greater strength of nickel steel, and particularly its high elastic limit, made it far more advantageous than ordinary steel. The elastic limit of nickel steel was nearly double that of ordinary steel, while beyond that limit there was a considerable range to the ultimate strength with a large elongation. The use of nickel steel in beams, channels, bulb angles, &c., would no doubt lead to a change in the form of section similar to that which was made when steel superseded wrought iron. In the case of a steel frame of a large building or other structure, the weight of the frame itself was a considerable part of the load, and any saving in the weight was a great gain. New boilers for the United States cruiser Chicago were being made of nickel steel, which would give the necessary experience to determine what degree of advantage there might be in the use of the material for that purpose. Corrosion experiments had of the material for that purpose. Corrosion experiments had been made with specimens of nickel steel in competition with specimens of other kinds of steel, under conditions which should indicate its adaptability for use in boilers, and for the underwater hull plates of vessels. Those experiments, while on a small scale, and, consequently, not conclusive, seemed, however, to show that for those purposes nickel steel possessed a marked advantage in being less corrodible. That was also confirmed by the experience obtained from the use of nickel steel propellers. Mr. Wiggin gave the results of recent experiments, which showed the relative loss by corrosion of nickel and other steels under different circumstances, and said the high limits of nickel steel together with its large elongation, and particularly its high elastic limit, indicated that the metal was well suited for gunforgings, and it was being tried for that purpose with every prospect of success. Under the drop test nickel steel gave better results than ordinary steel. It was better able to stand a sud-den strain than ordinary steel, and for that reason, together with its greater strength and stiffness, it was being extensively used for shafts, piston-rods, bearings, propellers, &c. In the case of a battle-ship, where the question of weight was of such vital importance, a hull of nickel steel of equal strength and stiffness to one of ordinary steel would mean a saving of weight of 500 or 600 tons at the lowest estimate, and that weight added to the armsument, arong a color of divided between them to the armament, armour, or coal, or divided between then would add a large percentage to the efficiency of the ship. Moreover, where the contract of the ship is the contract of the ship is the contract of the ship is the contract of the Rjellberg, the managing director of the Bofors Steel and Ord-nance Works, in Sweden, told him they had found from the trials made the fullest confirmation of the fact that a suitable addition of nickel to steel exercised a highly beneficial influence on the It caused a very marked increase in the elastic limit and readly increased. From the trials which had been made they tensile strength, while at the same time the congation was greatly increased. From the trials which had been made they had arrived at the conclusion that the beneficial influence of nickel on the properties of steel was far greater than one might be led to suppose from the results obtained in the testing machine as taken by themselves. In one of the trials they placed in one of their cast steel (nickel steel) gun tubes an ordinary cast-iron shell in such position that the centre of the shell was 300 millimetres (11.81 inches) from the muzzle of the tube. The shell was filled with compressed pieric acid 170°. When exploded the shell burst into little bits, but the gun tube did not burst, and the only effect of the explosion was that the diameter of the tube was expanded by 1½ millimetre (0.17 inch). Another similar shell, into which a similar quantity of pieric acid had been poured, was placed in the same tube, and in exactly the same position as the previous one, and again exploded. The explosion had no effect whatever on the tube; it did not even increase the diameter further. For the purpose did not even increase the diameter further. For the purpose of an armour-plate trial, two nickel steel plates were cast, 2440 millimetres (88 inches) long, and 1830 millimetres (72 inches) wide, the one being 90 millimetres (3.54 inches), and the other 96 millimetres (3.78 inches) thick. Five shots were fired at Five shots were fired at each from a 12 centimetre (4.72 inch) rapid-firing gun, the proeach from a 12 centimetre (472 field) rapid-firing gun, the projectiles being of Bofors steel, and weighing 21 kilogrammes (46 lbs.). The charge of powder was 3.37 kilogrammes (7.3 lbs.), and the velocity of the projectile at a distance of 46 metres (150 feet) was between 361.8 and 364.4 metres (1190 and 1200 feet). Each of the steel tiles rebounded intact without having penetrated the plate farther than to the cylindrical parts of the shells, and upon examination of the plates small cracks were with some difficulty found to have resulted from shots. Nos. 2, 3, 4, and 5 on the 90 millimetre plate, but none could be found on the 96 millimetre plate. Seven more shots were afterwards fired with similar projectiles, but it was not until the 11th shot that the plate broke. The 12th shot was fired with a charge of that the plate broke. The 12th shot was fired with a charge of 4·10 kilogrammes (9 lbs.) of powder, the projectile having a velocity of 413 metres (1350 feet), and then the 90 millimetre plate was at last penetrated. It was worthy of note that according to Krupp's formula, a projectile such as that—that was to say weighing 21 kilogrammes, and having a religious control of the say weighing 21 kilogrammes, and having a religious control of the say weighing 21 kilogrammes, and having a religious control of the say weighing 21 kilogrammes. s to say, weighing 21 kilogrammes, and having a velocity of 413 metres—ought to penetrate a wrought-iron plate of 150 millimetres (5.9 inches) in thickness; and it followed, therefore, that the 90 millimetre nickel-steel plate was 54 per cent. stronger that the 90 millimetre nickel-steel plate was 54 per cent. stronger than a wrought-iron plate of 90 millimetres. A large experience in making steel for war materials satisfied Mr. Kjellberg that he never could have attained the results he had done without the assistance of nickel. In general the percentage of nickel did not affect the welding power at all. The steel must be treated like any other steel, using more care with the higher carbons,

In conclusion, Mr. Wiggin referred to the cost of nickel steel, which he said could now be furnished at the price of ordinary steel a few years ago; and as ordinary steel had been greatly reduced in price in the last 10 years by improvement in the manufacture, so he believed the increased demand for nickel steel would cause a similar reduction in price as soon as the manufacture of it became sufficiently extended and improved. In this age of progress and development, no material could long remain exclusively or even principally used. When a better was known it would be employed, and he claimed that in nickel steel they had a better material than the ordinary steel of today. (Applause.)

day. (Applause.)
Mr. James Riley was pleased that Mr. Wiggin's paper was a corroboration of almost every point he made in the paper which he read before the Institute in 1889. They were two points, however, in which they disagreed—namely, on the matter of welding and the extent of the non-corrodibility of the metal. welding and the extent of the non-corrodollity of the metal. Mr. Wiggin's experiments were not quite corroborative of his own as to the extent of non-corrodibility. They agreed that the nickel steel was less subject to corrosion than ordinary steel, and that it was an admirable quality of steel; but his tests did not prove that to exist to the extent Mr. Wiggin showed. They were altogether in disagreement as far as the welding properties were concerned. He had not found that welding properties were concerned. He had not found that nickel steel welded readily—in fact, his impression was that the presence of nickel was detrimental to that quality. With regard to the use of the metal, perhaps more had been done with it than had been apparent. He did not think they might reasonably expect that nickel steel would be used, at all events, for considerable time to come in constructing the hulls of ordinary vessels, but in the construction of vessels of a special type for war, or vessels like the *Lucania* and *Campania*, where money was not a great object, but safety was everything, then he thought it was probable nickel steel would be used. He was astonished that boilers were not more largely made of nickel steel in this century. When the Lucania and Compania were steel in this century. When the *Lucania* and *Compania* were being constructed, he pointed out that if the boilers were made of nickel steel there might be a saving of some hundreds of tons in each vessel, or a still higher pressure might be used and greater economy might be obtained in working the engine. He was glad to know that attention had been turned in that direction, and that several vessels had been built in which the teel, the material used in the construction of the hull, had fulfilled all the tests referred to by Mr. Wiggin.

Mr. Beardore thought that in nickel steel they had a most valuable metal which very few people seemed to have studied. If marine engineers realised the very superior metal they had in nickel steel they would consider in what way they could use it. For the last two years he had been making nickel steel in considerable quantities, and he had found the metal in every way to be most reliable and uniform. The results which he had obtained in the testing-house had been very satisfactory, and he was at the present time engaged in preparing a series of tests from plates from 1 inch to 1½ inch in thickness with the view of placing the results before Messrs. Lloyd and the Board of Trade, the material for boiler-plates. The nickel steel he had been making was entirely for armour-plate work, and he did not know that it had been used for anything else in this country. Mr. Head said that recently he was taken through the Home-

Mr. HEAD said that recently he was taken through the Homestead Works of Mr. Andrew Carnegie, where he saw the manufacture of armour-plates of 25 tons weight. The nickel alloy used had 3½ per cent. of nickel. The cost of the alloy, he was told, was not more than £7 per ton, and, therefore, it did not seem to be an extravagant cost when they remembered that the work was being done in America.

work was being done in America.

Mr. WINDSOR RICHARDS said that at the works of the Bethlem Company, the great rivals of Mr. Carnegie in the manufacture of large armour-plate forgings, nickel steel was largely used. He was shown a 100 ton ingot, which was being forged under a 10,000 ton press. Whilst watching the forging he observed a very thick scale on the ingot, and that scale kept rising continually. When ordinary steel was being forged the scale was got rid of, but in nickel it clung tensciously to the metal, and reads a very rough surface. It was probably owing to that that made a very rough surface. It was probably owing to that that there had not been that extension of the use of steel plates in

there had not been that extension of the use of steel plates in shipbuilding that Mr. Riley had anticipated. He mentioned that very troublesome disadvantage so that Mr. Riley and others who had used nickel steel in plates might, perhaps, be able to account for its not making the progress expected.

Mr. Thompson (New York) said there was no doubt the American Government had taken more interest in the use of nickel steel than any other of the great Governments of the world, and in so doing had encouraged the steelmakers to use it not only for Governmental but for private purposes. In the United States nickel was being used for armour-plates, for the barrels of small arms, for large guns, for wire for torpedenetting, and it was also being used in the construction of vessels. The Steel Board of the Navy Department had recommended that the entire hulls of the new battleships now in course of construction should be made of nickel steel. Nickel steel was also being largely used in Russia, France, and steel was also being largely used in Russia, France, and Germany, and it seemed almost as if England knew how to produce good things, but was not quite ready to put them into practical use. (Applause.)

into practical use. (Applause.)

Mr. Milton, as a representative of Lloyd's, denied that the use of steel in place of wrought iron met with long-continued opposition, as suggested by Mr. Wiggin. The great use of steel in shipbuilding in this country and the world was to some extent due to the encouragement given by Lloyd's Register to its use—(hear, hear)—and if nickel steel had all the qualities it was said to possess, Lloyd's Register would be very pleased to consider the points, and if they were satisfied with them would welcome the material. (Hear, hear.)

Mr. Syelous was quite prepared to believe that nickel steel would not corrode as fast as other steel. He thought the corrosion of an alloy depended almost entirely on the matals, which

sion of an alloy depended almost entirely on the metals which

entered into the composition of that alloy.

Sir Henry Wiggin said the interest he felt in the question was rather of a patriotic character. If nickel had so largely increased the strength of iron he should like to know why it had not been adopted by the English Government in the build-ing of ironclads. England possessed great scientific knowledge, and was one of the first metallurgical countries in the world, and, seeing that other countries, America, France, Germany, and Russia, were using the alloy very extensively, it seemed strange that England had not adopted the use of a metal which appeared to be so very valuable in consequence of its great resisting power. He did not know whether any Government

was present and would give them some explanation Windson Richards, in reply to Sir Henry W. said that Sir William White went carefully into the matter before he decided on the merits of the two kinds of steel, and they might rely upon it that he adopted the one he considered best in the interests of the country.

Mr. F. W. Pauz challenged the statement that nicker was

better than ordinary steel up to § inch. Ordinary steel, he contended, would give as good results as nickel steel.

TURNER said that no reference had been made to the physical properties of nickel steel in regard to expansion and contraction. He had seen it stated that nickel steel contracted very much under the influence of cold, and the state-

ment had been made that if a warship constructed entirely of ment had been made that it a warsnip constructed entirely of nickel steel was sent into the cold regions, the steel would so contract that the fabric of the vessel would suffer seriously. If that were correct it would have a considerable effect on the the adoption of nickel steel, and if it were incorrect it should be

Mr. Milton, in answer to the last speaker, said that so long as the steel contracted uniformly it did not matter. Ordinary steel boilers when in use were sometimes a quarter of an inch longer than when they were cold, but that gave rise to no difficulty so long as due provision was made for the expansion of the steam pipes as well. The whole question was one of uniformity of expansion and contraction.

Mr. P. F. Nursey and Sir John Alleyne also took part in Wiggin for his paper, and saying that that gentleman would reserve any comments he might have to make on the discussion for the columns of the Journal.

Small Cast-Steel Ingots.

Major SMITH-CASSON read a paper on "Small Cast-steel Ingots." He said the importance of obtaining small steel ingots chiefly concerned the Midlands more than, perhaps, any other district in Great Britain. The old mills could not possibly compete in manufacturing large sizes with the splendid appliances of the modern steelworks. Only in small sections was there any change of doing business successfully: and, indeed, the home chance of doing business successfully; and, indeed, the home demand was principally for sheets, strip, and small sections. At present such mills were dependent upon the large steelworks for their supplies of blooms and billets, only to be had at tor their supplies of blooms and billets, only to be had at reasonable prices when the steelworks were short of orders for rails, plates, and finished bars. At other times, however, they were difficult to obtain unless very high prices were paid. Again, such steel rolled in large mills from huge ingots had so much work put upon it that it was found to be very hard to roll down in the small mills. It brought a considerable extra strain upon the machinery, involving extra firing, wear, and tear. However good the quality, steel would not stand the fire like iron; in fact, when welded it would break at the weld with a crystalline fracture, whereas iron of good quality would show as good a fact, when welded it would break at the weld with a crystalline fracture, whereas iron of good quality would show as good a fibre at the weld as anywhere else. It was no doubt mainly for that reason that steel had not been so successful for chains and other purposes where fibre at the weld was a sine qua non. In his efforts to introduce steel he had often met with that objection. It was, therefore, of the first importance to the manufacturers of small sizes, and especially to the proprietors with mills slightly under-engined, to have a material that they could down easily, whilst giving their customers the quality needed, and he onite independent of the large steelworks for their down easily, whilst giving their customers the quality needed, and be quite independent of the large steelworks for their supplies of material. Those results could be got with small ingots. It might be argued that unless they had previously rolled down the ingots into blooms and billets, sufficient work had not been put upon the steel; but that argument applied with equal force to large sections, which were invariably rolled direct from the ingot. On reflection, it would be seen that there was infinitely more work upon (say) a 3 inch ingot rolled into \(\frac{1}{2} \) inch square, than a 15 inch ingot into 5 inch square. The former was reduced in the rolling down to 1-38th of original size and the latter 1-9th. Another argument that might be advanced against the small ingot was the question of cost. It might be urged that the labour in casting was greater than with a large ingot, and consequently swamped the saving cost. It might be urged that the labour in casting was greater than with a large ingot, and consequently swamped the saving effected in dispensing with the rolling down into blooms and billets from large ingots. He admitted that the cost would be more, but from information he possessed, is, per ton or so would cover it, whilst the enormous first outlay of cogging and billeting mills was avoided. The Belgians and Germans were alive to the importance of the matter, and were rolling extensively from small ingots. That might to some extent explain the severe competition from those quarters. The writer then explained how the small ingots might be cast; and, in conclusion, said the samples which he had brought for the inspection of the members showed that for all practical purposes to which soft steel was applied the steel was as good as it could possibly be rolled from small cast ingots.

rolled from small cast ingots.

Mr. Windson Richards said that Major Smith-Casson had approached a very difficult subject, and one engineers had been considering for many years. There were objections to the small ingots, because they were not found to be so advan-tageous as the others. However, if the writer of the paper had overcome the obstacles, he would have rendered a very great

Messrs. G. J. Snelus, T. Walker, H. Webb, J. Kerr, and T, Turner also took part in a very technical discussion.

Tests of Cast-Iron.

The last two papers on the agenda were taken as read, and there was no discussion upon them. The first was by Mr. W. J. Keep (Detroit) on "Cooling Curves and Tests of Cast-Iron;" and the second was by Mr. T. D. West (Pennsylvania), also on "Tests of Cast-Iron." Mr. Keep's paper was illustrated by diagrams, and the writer dealt exhaustively with the subject, explaining the practical results of the experiments he had made.

Mr. West described the result of the experiments in had made.

Mr. West described the result of his study of the cause of the erratic results observed in testing the physical properties of cast-iron, with the object of overcoming them as far as possible.

Votes of Thanks.

The President proposed:—"That the best thanks of the Iron and Steel Institute be and are hereby tendered to the worthinful the Mayor of Birmingham (Alderman Fallows, I.P.) for Iron and Steel Institute be and are hereby tendered to the worshipful the Mayor of Birmingham (Alderman Fallows, J.P.) for his kindness in granting the use of the Council House of this city for the purposes of this meeting and for his kind reception of the members of the Institute. That the best thanks of the members are hereby given to the Chairman (Sir Benjumin Hingley, Bart.), to the hon. treasurer (Mr. Arthur Keen, J.P.), to the hon. secretary (Mr. Leigh H. Elkington), and to the members of the Local Reception Committee for the great cordiality of the welcome extended to them, and for the arrangements ally planned and successfully carried out for the conveniments ally planned and successfully carried out for the convenience, instruction, and pleasure of the members during the present meeting. That the best thanks of the members are also hereby given to the London and North-Western Railway Company, to the Great Western Railway Company, and to the Midland Railway Company for providing free special trains to Wolverhampton, Kenilworth, Warwick, Stratford-on-Avon, and Worcester; to the authorities of Mason College for their valu-Company, worcester; to the authorities of Mason College for their valuable co-operation; to the proprietors and managers of the various works and industries of the district for their great courtesy in receiving the members, and for the permission given to inspect their establishments; and to the committees of the Birmingham Exchange and to the clubs of the city for privileges accorded to the members of the Institute." He said the visit to Birmingham would long be remembered, not only as a processful one as recognized the papers read and discussed but successful one as regarded the papers read and discussed, but for the great assistance, liberality, and judgment exercised by

the Local Committee throughout.

Mr. Lyungmena (Sweden) seconded the resolution, and on behalf of the foreign members expressed appreciation of the excellent arrangements that were made by the local committee

for their entertainment and instruction.

The resolution having been carried by acclamation, other votes of thanks were accorded, and the proceedings terminated.

After luncheon several excursion parties were formed to visit the neighbouring places of interests.

CINNABAR IN TEXAS.

By WILLIAM P. BLAKE, Mill Rock, New Haven, Conn.

THE literature of the occurrence of quicksilver ore in the

HE literature of the occurrence of quicksilver ore in the United States does not contain, so far as the writer is aware, any mention of the locality herein described. In the preliminary report upon the resources of the Transpecos region of Texas, Von Streerwitz gives a long list of minerals observed as occurring there, but cinnabar is not mentioned. In the second report upon the same region mention is made of the reported existence of cinnabarite in one of the mountain ranges north of the Sierra Carrizo and the Bofecillos, but the author adds:—"In spite of my careful examination of the float, I have not yet found any traces of this metal (quicksilver) up to the present time." Professor Dumble, also, in his general report, says of mercury, "that, like tin, this metal has been reported from several localities, but up to the present we have not succeeded in verifying any of the reports or of finding

been reported from several rocalities, but up to the present we have not succeeded in verifying any of the reports or of finding any traces of it."

The later reports of the Texas survey contain no further reference to this subject, nor any occurrence in Texas noted by Becker in his exhaustive monograph upon the quicksilver texasist of the United States.

deposits of the United States

Becker in his exhaustive monograph upon the quicksilver deposits of the United States.

Early in the year 1894, Mr. George W. Manless, of Jimenez, Mexico, agent at that point of the Rio Grande Smelting Works, having learned that some Mexicans had obtained very rich cinnabar in the mountains of Texas, a few miles north of the Rio Grande, undertook, together with Mr. Charles Allen, of Socorro, N.M., an exploration of the region, with the result of finding the cinnabar deposits and locating them for development. My attention was directed to them through Mr. James P. Chase, of Socorro, with whom I visited the locality in the month of August last. About the same time a notice of the discovery was printed in Los Angeles, Cal., † and it was also mentioned in one or more of the papers in El Paso, and later in the Manufacturers' Record, published in Baltimore.

The locality is in the southern portion of the part of Texas, within the Big Bend of the Rio Grande river, about 80 or 90 miles south of Alpine station, and 90 or 100 from Marfa station on the Southern Pacific Railway. It is 50 or 60 miles from Presidio del Norte, and about 10 or 12 miles from the Rio Grande. These distances, it will be noted, are approximately stated, as there has not been any survey of the region. The longitude is about 27 W. and lat. 29:30 N. The cinnabar is best reached from Marfa by team through an open country, with a gradual descent from the Marfa tableland to the Rio Grande.

longitude is about 27 W. and lat. 29:30 N. The cinnabar is best reached from Marfa by team through an open country, with a gradual descent from the Marfa tableland to the Rio Grande valley, following first the valley of the Alamitos, and then over a low divide to the Tres Lenguas, which is followed southwards, generally between the flat-topped hills of the mesas on each side, until nearing the Rio Grande, where the road winds among higher and more rugged hills. The last six miles of the route is impassable for wagons, and the cinnabar camp is reached by a pack-trail which turns westwards from the wagon road, and leads across a country much broken and intersected by dre across a country much broken and intersected by dry hes" or creek beds.

The hills are low, but are much broken by escarpments of nearly horizontal strata of Cretaceous limestone. The elevation nearly horizontal strata of Cretaceous limestons. The elevation of the camp is shown by the aneroid barometer to be 3250 feet above tide. The valley of the Rio Grande, marked by its fringing groves of cottonwood-trees, is in full view for several miles. The mountains across the border in Mexico are also clearly seen, as well as the high range on the south-east known as Los Chisos, culminating in Emory's Peak, and the peculiarly-shaped peaks known as the "Mules' Ears"—all noted landmarks. Major Emory, describing this region in a few words, 8385:—

marks. Major Emory, describing this region in a few words, says:—

"The Rio Bravo, accommodating itself to the geological fornation of the country, makes between the 100th and 104th meridian of longitude, two great bends nearly symmetrical, one to the south and the other to the north. The area included in the southern bend is one vast Cretaceous bed, upheaved by igneous protrusions, sometimes forming ranges of mountains, as the Limpia range, and at others isolated peaks, like Gomez Peak and San Jacinto."

From Marfa to the Tres Lenguas the direction is nearly southeast, following a widely eroded valley in tablelands, which are generally capped with a hard layer of basaltic lava, seen to the best advantage at the Alamitos rancho and in the Church Mountains, near Collinson's rancho. An isolated conical mountain, rising from the broadly eroded country to the eastward of the Church Mountains, has a flat top, and is evidently a remnant of the former mess, left standing as a monument, as if to show what an enormous amount of material has been swept away to the Gulf by erosion and degradation. The edges of the horizontal backers he can few a distance and the same

to show what an enormous amount of material has been swept away to the Gulf by erosion and degradation. The edges of the horizontal beds can be seen from a distance, and the mountain, known as San Diego Peak, doubtless affords a very complete and interesting section of the entire series of beds from the lava-cap to the lower strata of the Creaceous.

The beds of which this peak and the mesas along the Alamitos and the upper branches of the Tres Lenguas are chiefly formed are remarkable for their whiteness and homogeneity, and appear to consist chiefly of an indurated volcanic mud. It is an amorphous mass, in which there is a large amount of clay and silica; but it is without well-defined structure of stratification. It is remarkable for the general absence of oxide of clay and silica; but it is without well-defined structure of stratification. It is remarkable for the general absence of oxide of iron. It is fusible and would appear to be a mass resulting from the breaking-up of feldspathic rocks. The thickness is probably not less than 500 feet, and it extends over a wide area, cast and west, as far as the edges of the high mesas can be seen. The general uniformity of composition of this deposit is broken towards the top of the mesas by a bed of conglomerate and breccia, 10 feet or more in thickness, made up chiefly of red and known porphyritic rocks. The masses being, in part, well-rounded, show the action of currents of considerable force and extent. This stratum contrasts strongly with the white sediments above and below, and makes a dark-coloured belt or band through the hills, visible for miles on either side. through the hills, visible for miles on either side.

Of the geological age of this series of beds under the lava, it is impossible from the limited observations and the entire absence of fossils to write positively; but it is my opinion that the Pliocene and Miocene Tertiary are represented, and that these volcanic deposits should be correlated in time with those of the upper Gila, of Central Arizona, and those of the gold region of the Sierra Nevada in California. In descending the valley of the Tres Lenguas there is a

region of the Sierra Nevada in California.

In descending the valley of the Tres Lenguas there is a marked transition from the volcanic beds to those of unquestionable Cretaceous age. At first thick masses of finely-bedded blue and yellow shales are encountered, and in the broad flat surfaces countless casts of Inceramus reveal their proper horizon. The strats, at first lying apparently horizontal, are found to be cleft in various directions by faulting-planes, with large blocks partly upturned and evidences of extreme lateral pressure, by which the shales along the faults are buckled upwards and crushed.

The shales are succeeded by limestones, massive, light-

ous fossils.

As the cinnabar locality is approached, the Cretaceous strata are much more broken and uplifted in monoclines dipping west. Older and crystalline rocks appear, and there are intrusive dykes. Compact blue limestones are found, with an abundance of Gryphea and some ammonites. There is a large development of a yellowish-brown limestone, largely made up of foraminifera Nodosaria texana (Conrad), marking a well-known geological horizon in Eastern Texas. According to Professor Dumble, of the Texas Survey, its position is the upper portion of the Arietina clays, though in the trans-Pecos region it seems to occur near the base of the Washita division. This is the nearest well-dfiened fossil horizon I have found contiguous to the cinnabar deposits with the exception of a fossil Pecten in

nearest well-diened fossil horizon I have found contiguous to the cinnabar deposits with the exception of a fossil Pecten in one of the cinnabar openings.

The cinnabar occurs both in massive limestone and in a siliceous shale and a white earthy clay-like rock, and in part in a true breecia of grayish-white silicious shale, dense and compact, imbedded and cemented in a red and chocolate-coloured ferruginous mass, also dense and hard. The white blocks, or included fragments of the shale, exhibit a concentric arrangement of colouring by oxide of iron disposed in bands and thin sheets, deposited in the substance of the shale by the absorption of ferruginous solutions, penetrating from without inwards sheets, deposited in the substance of the shale by the absorption of feruginous solutions, penetrating from without inwards along the surface of the fragments. These deposited coatings or layers conform in general to the exterior forms of the masses, and succeed each other like the concentric layers seen in agates and chalcedony. The coloured depositions may also be seen surrounding tube-like or thread-like channels, which have permitted the inflow of solutions bearing not only iron salts, but also those of quicksilver, and leaving behind, in the substance of the rock, layers of iron oxide and of cinnabar concentrically disposed. While the genesis of the cinnabar is here shown to be essen-

While the genesis of the cinnabar is here shown to be essentially like that of the iron oxide, it is smaller in quantity, and is so far separated from the ferruginous bands as to show a great difference in the conditions of deposition. The cinnabar is more generally crystalline than amorphous; it is not found in such continuous coatings or layers in the white shale as the iron oxide, but is in distinctly separate grains and small but brilliant rhomboidal crystals, having the brilliant red colour characteristic of vermilion. There are also considerable masses of snow-white argillaceous "ock, seemingly the result of alteration of shale by infiltration, in which cinnabar is found in minute crystalling grains spread in hunches here and there through the crystalline grains spread in bunches here and there through the mass, and often not observable until the mass is rubbed or bruised with a pick or hammer, when the red colour or vermilion appears. In such masses there is apparently a complete absence of ferruginous matter. The soft, white, chalk-like masses of rock do not appear to be so favourable to the crystallisation of the cinnabar as the more dense and siliceous portions of rock resembling cheet or flipt, where the cinnabar is tions of rock, resembling chert or flint, where the cinnabar is in distinctly-formed crystals sprinkled through the rock, much like the occurrence of cinnabar in the siliceous gangue of the

deposits of Buckeye rancho, California.

In addition to these disseminated crystalline granules in the brecciated shale and in the more massive white rock, there are amorphous bunches of cinnabar found in the shales and in the limestones and the breccia. This cinnabar is not, however, in hard masses like those of the New Almaden Mine in California, hard masses like those of the New Almaden Mine in California, nor is it in veinlets, as there found, traversing the rocks; but it is soft and friable, and has a light vermilion colour. Calcite is associated with it, but, so far as observed, no petroleum or bituminous exudations. Some of the larger masses of cinnabar bunches, weighing 2 or 3 lbs. of nearly pure mineral, were taken out of an open-cut, where the shale appears to be the parent rock; but I noted also some small bunches of the cinnabar in

compact blue limestone. There are several points on the line of about 1000 feet in length, along a shallow ravine, where open-cuts have been made to a depth of a foot or two, revealing the presence of cinnabar in each, and in the soil mixed with the croppings. This linear distribution of the cinnabar is indicative of a veinlike occurrence, or it may be the result of a cropping of a certain bed or stratum. The openings which had been made were not deep enough to show conclusively the real conditions of occurrence. In some places the appearances favoured the conclusion that the ore is interstratified or bedded; in others it seems to occur along a fissure or fault plane, and it is most probable that both of these forms of occurrence will be found to

There is a second line of cropping of cinnabar a few rods north of the first and higher up the hill, and in the midst of the hard limestone. This is in the midst of a well-defined breccia of iron oxide, and the masses of cinnabar are closely associated with it. Masses of iron oxide rock and cinnabar weighing 1 cwt. or more can be broken out from croppings here; but no work has been done to develop this ground in death. The cinnabar croppings may be traced for a ground in depth. The cinnabar croppings may be traced for a few feet each way, and the breadth does not exceed 18 inches or 2 feet. This occurrence does not appear to be connected with the series of croppings before described, and it has a more decided resemblance to a fissure deposit or impregnation.

The existence of several outcrops of a ferruginous breccia, with and without cinnabar, is indicative of breaks in the beds in the partyre of feasives (feasitr planes probably) accompanied.

in the nature of fissures (fault planes, probably), accompanied by rupturing and crushing of the rocks by violent movements under pressure. Other evidences of fissuring and of metal-liferous impregnation through the fissures are visible in the neighbourhood in the many vertical cracks in the limestone strata, marked by the lateral deposition of oxide of iron on both sides. Such deposits are extensive and show that there has been an abundant supply of iron-bearing solutions. Whether these solutions flowed from below upwards or from above downwards it is not essential to determine; but the source of such solutions is indicated in one place, not far distant, by very considerable deposits of iron pyrites in a blue clay or bluish-green shale cropping out a short distance south of the cinnabar deposits. This pyrite is compact, granular, non-crystalline, and bronze-like, and is apparently in nodular masses in the shale. The relations of these deposits of pyrite to the cinnabar were not further ascertained, and can only be theoretically.
We may in this way suppose that the cinnabar is present in the pyrites, and that it is carried in solution and deposited, together with the iron oxide, in the rocks, where the conditional control of the conditions can be supposed to the conditions of the control of the conditions can be supposed to the conditions can be supposed to the conditions of the conditions can be supposed to the conditions of the conditions can be supposed to the conditions of the ot further ascertained, and can only be theoretically assumed. together with the fron oxide, in the rocks, where the condi-tions are most favourable. Careful chemical investigations can alone determine whether the pyrite contains quicksilver, and the nature of the chemical changes of decomposition and recom-position resulting in the formation of the cinnabar.

The phenomena all point to a formation from aqueous solu-on rather than to a deposition from vapour.

Leaving theories of origin aside, the practical question to the miner and metallurgist is as to the best place in which to sink for the better development of the ore in quantity. This place would appear to be at the brecciated cropping on the hill in the limestone. Whatever the origin of the ore may be, this place seems the most promising; as limestone, being the more soluble rock, may contain large bunches below, where the ore has been accumulated by replacement. On the other hand, we have seen that the insoluble porous shale rock offered favourable

conditions for the deposition of the cinnabar without the exhibition of the phenomena of replacement, the conditions here favouring the gradual concentration of mercuric solutions by

favouring the gradual concentration of mercuris solutions by evaporation from the pores of an insoluble containing rock.

In considering the source and origin of the cinnabar we should not loss sight of the fact that there is an intrusion of doleritic rock near by, and that this probably has direct and close connection, not only with the disturbance of the strata, but also with the source of the metalliferous impregnations.

The conditions for working these deposits of cinnabar are not as favourable as could be wished. The brilliant colour of the ore would permit of its being utilised as vermilion, but there is no water near the place for concentrating it. Considerable ore could be taken out of the loose earth along the main croppings if water could be had to wash with. A supply of wood for fuel can be had along the Rio Grande, and could be delivered at the mines for probably \$5 or \$6 per cord. Although a considerable quantity of high-grade ore which would bear transportation could be selected by culling, there would remain a larger quantity of low-grade which would be practically useless. There has not yet been sufficient work done on the croppings to show satisfactorily what quantity of ore of a desirable average percentage can be expected.

MINING IN CORNWALL

AND DEVON: NOTES ON MINING IN THE WEST.

(FROM OUR SPECIAL CORRESPONDENT.)

Y far the most interesting and important feature of the week has been the meeting of East Pool adventurers on Monday, has been the meeting of East Pool adventurers on Monday, and the lengthy discussion which took place on the vexed question of the pumping arrangements with the neighbouring mine of Wheal Agar. Interest was added to the discussion by the presence of Mr. Cornelius Bawden, and Captain Hambly, the manager, of the last-named mine, and for some time a battle royal was waged between Mr. Bawden and some of the shareholders in East Pool. Mr. Bawden at one time endeavoured to go into matters which had occurred four or five years ago, but fortunately the assembled adventurers were spared the infliction of listening to a recital of ancient history which could not have contributed in any way to the bringing about of a settlement. Some fault undoubtedly lies at the door of each of the executives, and while they are in their present mood it is useless to expect them to come to terms. lies at the door of each of the executives, and while they are in their present mood it is useless to expect them to come to terms. Arbitration is the only method which they can adopt, and if, instead of disputing as to who made the first offer of arbitration, the two companies would select their men and let them get to work, some headway may be made. Wheal Agar has certainly gained its point by forcing East Pool into an agreement to work Wheal Agar engine for a month at their own expense, but having done this, the responsibility will rest upon Wheal Agar for seeing that every attempt is made to ensure the engine being kept constantly at work. It is to be hoped we have now seen the last of this petty strife, and that before long the shareholders may have some fair and equitable scheme of amalgamation presented to them. scheme of amalgamation presented to them

The accounts for the first time for many years showed a loss of over £400, the result of the lowering of the average produce of the mine and of the loss of four days' holidays. The committee did not recommend a call, although their first intention was to do so, and the £400 loss comes out of the reserve fund which has been built up. East Pool seems to be getting poorer every quarter, and wants an improvement badly. The arsenic sales were again an important item, realising over £1200.

The improvement in Vottle shaft at Wheal Kitty is maintained, and is regarded by those who know the St. Agnes district well as a very important discovery for the future of the mine. The lode is presumed to be the West Kitty lode, though the heaves in that district are so peculiar and frequent that it is difficult to speak accurately. The tin there is also very "bunchy," and shareholders will want to see it developed a little before they are satisfied as to its permanence. We understand that Wheal Friendly executive are contemplating a large expenditure on machinery with a view to vigorous development. Certainly their action in this direction cannot be regarded as premature or hasty. mature or hasty.

A POINT of great interest to the tin streamers of the county was decided by the Vice-Warden at Truro, on Thursday. It has been a moot point for a long time as to whether they are liable to pay the assessments, and on Thursday Mr. C. V. Thomas, of Camborne, appeared before Mr. Fisher to argue the matter on Camborne, appeared before Mr. Fisher to argue the matter on behalf of a number of leading streamers. His contention was that "streaming," as at present carried on, was quite unknown at the time of the passing of the Acts under which the Stannary dues are paid by miners. "Stream-works" of the kind indicated by the term as then used, and thus the Vice-Warden confronted Mr. Thomas with the word "tinners," mentioned in one of the statutes, but he argued that by "tinners" were meant men who were either working alluvial deposits or underground in mines, and repudiated the wider interpretation of "all who work for tin," which the Vice-Warden suggested. The argument was ingenious rather than plausible, and Mr. Thomas himself can hardly have been surprised when the Vice-Warden intimated that in his judgment the streamers were liable. judgment the streamers were liable.

Among the ventures in Cornish mining which are now appearing under the new form of Limited Liability, we are glad to see this company, which has been formed under the able direction of Mesers. J. H. Collins and Sons, to take over the leases, plant, machinery, and other property hitherto belonging the Wheal Metal and Flow (Cost Book) Company. The p chase consideration was £4500, which has been taken altoget The purin shares, and the capital of the company is £15,000, in 60,000 shares of 5s. each. As the mine is a going concern, and the machinery is in good working order, this capital is expected to machnery is in good working order, this capital is expected to afford ample means for exploring the western part of the famous Metal lode, which is the especial object for which the company has been formed. Hitherto the western workings have been extremely limited, but it is now intended to open out this portion of the lode in depth. The encouragement to do this lies in the fact that between 1855 and 1877 the eastern portion of the same lode was worked to a depth of over 200 fathoms and yielded more than 9000 tons of black tin, which fathoms, and yielded more than 9000 tons of black tin, which fathoms, and yielded more than 9000 tons of black tin, which sold for £400,000, of which amount £90,000 was declared in dividends. The price of tin is low at present though many people look for a considerable advance before long. But the Metal lode is said to be one of more than average richness, and should the part now to be worked prove to be as rich as the eastern part was a quarter of a century ago, the undertaking would be profitable at the lowest prices realised during the present century. sent century.

coloured, nodular, and rugose in structure, and filled with large specimens of Erogyra and other characteristic Cretace-

^{*} A paper contributed to the American Institute of Mining Engineers, The Buflion August 14, 1894, vol, xil., No. 16, p. 3,

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THE PRESENT LIMITATIONS OF THE CYANIDE PROCESS.*

By C W. MERRILL, B.S., San Francisco, Cal-

THE cyanide process in the United States, notwithstan ling numerous failures made under the direction of the owners of the parent rights, and others, has now passed its experiment il stage, and can undoubtedly, be made successful when intelligently applied to suitable material.

Much, however, remains to be known as to the exact conditions under which this process is applicable to the treatment of gold-bearing ores. If the owners of the patent rights in this country have ever scientifically investigated the matter, they have never published any valuable information on the subject. Other parties who are now using the process (often independently of the patentees), have nothing to gain by publishing their experience; and, moreover, many of the chemical reactions described in the text-books refer to the use of solutions of potassium cyanide many times stronger than are used in the

I have, therefore, venture I to outline in the following paper some conclusions from laboratory and field investigations, hoping thereby to induce others to communicate their knowledge, and thus to give new light upon certain points which are as yet unsettled; also to call attention to matters which should be kept in view in considering the treatment of orea by this method; and, finally, to add what little I can to the knowledge

now extant upon the subject.

Unless otherwise specified, the term ore, as used in this paper will signify either one or tailings.

will signify either ore or tailings.

The consideration of ores of which the silver forms an important factor of their value, will be omitted, although there are good reasons for b lieving that, with some modifications, certain silver and silver-gold ores can be successfully treated.

Ores containing coarse gold, which is not easily soluble in potassium cyanide, should always have that portion of the gold

Ores containing course gold, which is not easily soluble in notassium cyanide, should always have that portion of the gold extracted by concentration or amalgamation before leaching. This precaution being observed, out of some 15 gold ores on which I have experimented, not one has been found in which more than 25 per cent. of the original value was left in the tailings after leaching with a solution of potassium cyanide. In some cases less than 5 per cent, so remained, the average being about 15 per cent. But often the decomposition of cyanide of potassium was so great as to prohibit the application of the process. The assertion of the patentees, which forms the basis of their original United States patent, to the effect that solutions containing cyanogen in a proportion not exceeding 8 parts of cyanogen to 1000 parts of water (which is equivalent to a 2 per cent, solution of potassium cyanide) will dissolve gold and silver in the ore, while leaving the base metals practically intact, is contrary to the fact, as a solution containing as little as \(\frac{1}{2} \) of 1 per cent, or less of potassium cyanide, will dissolve compounds of some of the baser metals, and especially of copper, zinc, and manganese, with the greatest facility.

Of the ores unsuited to this process, some are so for chemical reasons. Of these, curriferous ores are specially to be mentioned. The great affinity of all copper minerals (save, possibly, the silicate, the phosphate, and native copper), for cyanogen, is the cause of a large consumption of cyanide of potassium, which is an expensive reagent. A means of recovering the cyanogen thus rendered useless has not as yet been devised. A few figures will illustrate this large consumption. One pound of copper will combine with a little more than 2 lbs. of potassium cyanide to form the double cyanide of copper and potassium; therefore, if an ore contain as little as one-half of 1 per cent., or 10 lbs. per ton of copper, in a mineral form which is soluble in the solution used, the amount of cyanide of potassium rendered useless will be more than 20 lbs., costing, at 50c. per lb., more

The same line of reasoning applies to oxidised zinc-bearing ores, but the affinity for cyanogen does not seem to be as great in zinc minerals as in those of copper.

in zinc minerals as in those of copper.

The consumption of potassium evanide occasioned by the presence of certain compounds of iron and manganese can sometimes be obviated, to a great extent, by mixing lime with the ore; but at other times there is, in leaching partially oxidised pyritic ore, a consumption of potassium cyanide which the use of lime will not overcome. There is no precise information available as to the mineralogical or chemical conditions under which these differences occur.

under which these diff-rences occur.

Other ores offer difficulties because of their physical nature. This is the case with ores naturally soft or slimy, and yet not porous enough to give a good extraction when crushed coarse. By fine crushing these are rendered so impermeable to the solution that successful leaching is impossible.

Similarly, the treatment of slimes which have become segregated from the sandy constituents of the ore has not, as yet been solved in a practical manner.

Furthermore, there is a class of roasted material, in the roasting of which the temperature was so high as to fuse the minerals in which the gold occurs, thus so imprisoning the gold as to render it incorpable of being dissolved by the evanide solution.

Coming now to the, as yet, undetermined class of ores, trustworthy information from continuous working of large quantities is still lacking in regard to the behaviour toward cyanida solutions of ores containing galens, zinc-blende, or oxidised lead compounds, also of telluride ores and unoxidised pyritic ores. Their adaptability to the tratment will depend, in the first place, upon the condition in which the gold is present (whether distinct from the base metals or chemically or intimately combined with the latter), and, in the second place, upon the solubility of the base metals in a solution of potassium cyanide in the sufficient to extract the gold. Where this solubility exists to any great extent the consumption of potassium cyanide will render the process unavailable. Moreover, the solubility of the base metals entails other evil effects besides the chemical loss of potassium cyanide. As the solution becomes fouled by their presence, its extractive power becomes weakened, even though the normal percentage of active cyanegen be maintained by the addition of fresh quantities of potasium cyanide.† Again, the gold and silver centained in solutions of this kind are imperfectly precipitated in contact with metallic zinc. The zinc filaments used in practice for precipitating the precious metals become incrusted with a deposit which prevents their further action to such an extent that, as has happened in a large plant erected for the cyanide process, the solution, after it has been used on the ore a few times, will flow out of the zinc boxes almost as rich as it went in, causing, with other difficulties in the treatment, the failure of the process.

The class of ores suitable for this process comprises all oxidized oxes which are not included in the above classes; also

dised ores which are not included in the above classes; also, roasted tailings from which the coarse gold has been removed, and which do not contain such compounds of the base metals as

A paper read before the American Institute of Mining Engineers, f As a possible explanation of this fact, I take pleasure in calling attention to Mr. MacLaurin's paper in the Journal of the Chemical Society for February, 1895, in which he clearly and convincingly shows that the rate of dissolution of gold in symmide solutions decreases as the viscosity of such solutions inreases, and as the absorption-coefficient of oxygen decreases, will consume too large a quantity of potassium cyanide; and finally, strictly quartzose or siliceous ores in which a considerable quantity of fine gold remains after amalgamation. A small percentage of pyrites in such cases will not prove an insurmountable objection.

In conclusion, it may be said that, as far as known at present, only those ores can be economically treated which will readily yield a fair percentage of their gold contents to the action of weak solutions of potassium cyanide, and which contain no appreciable quantity of base metal compounds soluble in such weak solutions. While strong solutions will extract a high percentage of the value from a much larger class of ores, no method has as yet been made known for overcoming the excessive chemical consumption and the consequent fouling of the solution accompanying their use.

In deciding upon the application of the cyanide process to the treatment of a new ore, it is, therefore, not sufficient to know, in a general way, that a high percentage of the gold is soluble in potassium cyanide. The minimum strength of solution which will be required to obtain satisfactory results, and the unavoidable loss of potassium cyanide by chemical decomposition, should be carefully ascertained by laboratory tests, as well as the permeability of the crushed ore to the leaching solution. An investigation should also be made to determine the ability of zinc to precipit to the precious metals after continued u. of both the solution and the zinc.

JOHANNESBURG CONSOLIDATED INVESTMENT.

THE report of the Johannesburg Consolidated Investment Company (Limited) for the year ending June 30, which has just been issued, states that in November a London directorate was established, and at the same time the capital was increased from £350,000 to £650,000 by an issue of 300,000 was increased from £300,000 to £050,000 by an issue of 300,000 shares of £1 each, at a premium of 10s, per share. In February the company purchased the entire assets and business of the South African Trust and F.n.ince Company (Limited), and in connection therewith the capital was further increased to £800,000 by an issue of 133,000 shares at a premium of £1 10s, per share. The capital is thus now £800,000, in £800,000 shares of £1 each of which 788,000 shares are issued and 12,000 unper share. The capital is thus now £800,000, in £800,000 shares of £1 each, of which 788,000 shares are issued and 12,000 unissued. By circular issued in November, the directors announced that arrangements were in progress for the extinction of the founders rights to participate equally with the ordinary shares in any dividend declared in excess of 20 per cent. per annum. Under this arrangement the company acquired an option—which it has since exercised—from the holders of 17,000 shares which it has since exercised—from the holders of 17,000 shares carrying founders' rights, to extinguish these rights for an allotment of 25,000 fully paid shares, and the directors are gratified to report that they have since concluded an arrangement with the holders of the remaining 8000 shares carrying founders' rights to extinguish these rights on similar terms Since the commencement of this year the business has greatly expanded, and the company has become interested in many very profitable important financial and mining enterprises. The company, by arrangements made in January with Messra Barnato Brothers, acquired from that firm the financial and commercial agencies in London of some of the most important gold mining companies in the Transvaal. In consideration of an allotment of 10,000 fully-paid shares of this company, Messrs. Barnato have transferred all such agency business as fro January last. The capital value of the shares—£10,000 as from 1st the accrued dividend thereon is charged against the profits of the year. These shares will now be allotted. Since June the year. These shares will now be allotted. Since June 30 further important agencies have been acquired. The amount to the credit of profit and loss, including the balance of £14,573 brought forward, is £989,029. The directors recommend that this balance be appropriated as follows:—An interim dividend at the rate of 20 per cent. per annum was paid in December on 350,000 shares, which absorbed £35,000; to payment of a dividend to shareholders registered on July 31, at the rate of 40 per cent. per annum on the issued capital of 788,000 shares, £157,600; to creation of a reserve fund, £400,000; leaving a balance to be carried forward of £396,429. The assets have been carefully valued, and the directors are of opinion that their estimate of the same will be more than realised. Of the stocks and shares in various undertakings held on June 30 many have since materially appreciated in value. House and landed property and shares in landed estates owned by the company have been valued upon a basis to return 10 per cent. on the capital value, inclusive of the premises occupied by the company, and to meet which the property account has been written down to the extent of £15,054. The present London offices being entirely inadequate to meet the requirements of written down to the extent of £15,054. The present London offices being entirely inadequate to meet the requirements of the business, the directors have recently purchased a freehold site in Austin Friars, upon which a suitable and commodious building will be erected. Mr. G. W. Starr, late manager of the Primrose Mine, has been appointed consulting engineer to the company, and all mining enterprises with which the company is associated have been placed under his management and control. It wisn's of the large amount of central required to deal with In view of the large amount of capital required to deal with undertakings which are constantly arising in connection with the development of the Transvaal, the directors deem it expedient to retain large resources on hand. The business since June 30 continues of a promising nature, and the directors June 30 continues of a promising nature, and the directors take every opportunity to acquire interests in the further developments taking place in South Africa. Bulance-sheet:—Liabilities: Capital account, £300,000: 788,000 shares is u dat £1 each, fully paid, £788,000: 12,000 reserve shares (as per contra), £12,000—£800,000. Fixed deposits, £220,939; sundry creditors, £122,127. Profit and loss:—Balance, £954,029—£2,097,095. Assets:—Cash at bankers and in hand, £142,710; I and to mining companies and on the London and Johanne durg St Exchanges, repayable at short notice or call (fully secured), Exchanges, repayable at short notice or can (riny resured), 2366,630; sundry debtors, £273,895 real setate, hou cand landel properties and shares in same, £173,362; investments in mining properties and shares, and in financial, municipal, commercial and other undertakings, £1,121,901; sundry assets, machinery office furniture, £2,26508; reserves shares (as not commercial and other undertakings, £1,121,901; sundry a*s-ts, machinery, office furniture, &c., £6506; reserve shares (as per contra), £12,000—£2,097,095. Profit and loss account:—Salaries (including audit fees), £7,729; directors' fees, £1950; rent, rates, and taxes, £1347; interest on deposite, insurance and exchange, £6014; house and landed properties, machinery, office furniture, &c. (written down), £17,440; purchase of agency business (10,000 Johannesburg Consolidated Investment ahares and dividend on same), £12,000; general expenses, including printing and stationery, advertising licences, cables, postages, bank charges, &c., £3805; balance carried down, £640,299—£690,585. To interim dividend paid at the rate of 20 per cent. per annum on 350,000 shares, £35,000; to balance carried balance-sheet, £954,029—£989,029. Revenue on real estate, house and landed properties, £14,053; agency, secretarial and transfer fees, brokerage, commissions, &c., £19,977; interest on loans, £62,406; bad debt (recovered), £120; profits on mining properties, shares in mining and other companies and undertakings (the shares on hand taken at market value of the June 30, 1895), £594,029—£690,585. By balance from account to June 30, 1894, £14,573; by premium on shares (less expense of issue), £334,156; by balance brought down, £640,299—£989,029. machinery, office furniture, &c., a contra), £12,000-£2,097,095.

MEETINGS OF MINING COMPANIES.

CONSOLIDATED GOLD MINES OF WESTERN AUSTRALIA, LIMITED.

THE first ordinary general (or statutory) meeting of shareholden in the Consolidated Gold Mines of Western Australia (Limited) was held on Monday, at Winchester House, the chair being occupied by Mr. A. F. CALVERT.

The SECRETARY (Mr. W. H., Jeffers) read the notice convening

The CHAIRMAN said: Gentlemen—As you have been informed by The CHAIRMAN said: Gentiemen—As you have been informed by the notice which the secretary has just read, this is the statutory meeting of our commany, held in accordance with the requirements of the Companies Act within four months of our registration. In the usual course of things there is little to be said and still list to be be done at these statutory meetings. As a rule, they are late as possible in the hope that something may occur were as a suitable topic for the Chairman to dilate upon. part we have postponed calling this meeting until as late a moment as the law allows, not because we had nothing to tell you, but because we have had much to do in the meantime. In order to keen you fully posted in the interim with information about our preperties, your directors circulated a short while ago an exhaust. perties, your directors circulated a short while ago an exhaust, we prel minary report, and we now welcome the opportunity that the meeting gives us of supplementing that intelligence, and explaining as clearly as possible the present position and future prospects of the company. It is, as I need carcely remind you, less than a year ago since the old Consolidated Company was issued, with a captul of £90 000 and a total area of 18 acres. On these 90,000 shares we have since allotted a share bonus of 25 per cent, and in consequence of the meal company will have the Command of the company will have the Command of the amalgamation the new comrany will have the command of £375,000, and this without appealing to the public for any of the Our working capital and our acress additional money required. additional money required. Our working capital and our acrease have also been proportionately increased, and we have the command of £105,000 subscribed and reserve for working the 144 acres of territory which we now possess. These changes, gentlemen, have not been accomplished without constant work and much anxious not been secomplished without constant work and much anxions thought, and we may, perhaps, be excused if we allude with satifaction to the success of our efforts. Our whole aim in projecting and carrying through this important amalgamation of big interests was to place our company in the strongest possible position, and make it second to none amongst West Australian mining ventures. We had already a sound and valuable property in our Congan Mine, and we have now secured nine additional and separate gold mining resortion which are a estimated that the perty in our Congan Mine, and we have now secured nine additional and separate gold mining properties, which are so situated that they can be worked in three groups under one general manager. The benefit derived from working the properties in groups is, of course, the large saving that it allows of working capital, and the advantage of our large acreage is twofold. In the first place, we should be able, if we so desired, to dispose of a large block of the remaining land to a subsidiary company; while, on the other hand, should any one of our claims disappoint when developed, the machiner, staff, &c., could be, without difficulty, removed to a more promising portion of our property. Our working capital, I believe I am correct in asserting, is the largest working capital, I believe I am correct in asserting, is the largest working capital, I believe I am correct in asserting, is the largest working capital, I believe I am correct with another powerfol company having its properties in the same neighbourhood, and you will be glad to hear that your directors have entered into arrangements for working, to some extent, in conjunction with the North-West Australian Gold Fields in the largest mining concern in the North-west, I has several valuable properties, and a substantial working capital and reserve of £70,000. We consider that this working arrangement between he two companies gives us the premier position on the gold field. That ten separate properties we possess that make up our 144 acres are the Coongan, the Peewah, the Peewah Extended, and the Northended, West Mallina, Lord Byron, Westward Ho, and the Oriental Mines, of 12 acres each, and the East Mallina, East Mallina Extended of complicated and heavy work in carrying out the liquidation of the various companies interested in the amalgamation, and in the transfer of the various properties from companies, but in the short period since our registration this bas all been got safely through without any hitch, and I am glad to be able to tell you to lay that all t and separate gold mining properties, which are so situated that they can be worked in three groups under one general manager. The opinion of your directors that their efforts in this direction have been entirely successful. For the Coongan group we have appointed Mr. Watter Marsh and Mr. Owen, who will work in conjunction in the management of this group, and in that of some of the Talca Talga properties of the North-West Australian Gold Fields. The joint management, which is the outcome of our arrangement with the North-West Company, reduces the expenses in both instances to a comparatively small figure. Mr. Marsh, whose mining career is well known to some of the members of your board, as well as tour managers. Messrs. Penchard McTaggart and Co., has had a very wide experience in India and Australia. He has been on the spt for some time, and has been autively engaged in systematic openingwide experience in Irdia and Anstrains. He has been on the spir for some time, and has been actively engaged in systematic opening-up work, and in superintending the removal and re-erection of our machinery on the property. Mr. Marsh's last cablegram announces a further improvement in the mine, and we are in daily expectation of hearing that he has recommenced crushing on the Coongan group. Mr. Samuel Barrell, who has been placed in charge of our properties in the Nicol district, has had considerable experience in Victoris, as well as in the North-west, and he superintended the opening-up and development of our Coongan, Mine hefora it was taken over by this well as in the North-west, and he superintended the opening-up and development of our Coongan Mine before it was taken over by this company. Mr. Barrell will be assisted in the management by M. Pavne and by Mr. Garvey, who will have charge of the machiner. Both these gentlemen, who were sent out from this country, arrived at the Nicol on June 10 last. I may tell you that we have been strongly recommended to add to our crushing power on the Nicol immedial in the last way decided to add to the terminance policy we have white rebut we have decided to adhere to the cautions policy we have hither followed and test the mine thoroughle with the machinery that we have not respect to the spot. Should the results of these ters come up to our expectations, we shall lose no time in increasing or crushing rower. As our legal marazer we have appointed M. Angustas S. Roe, of Roebourne. Mr. Ros is, without question, one of the leading men of the North-west. For many years past he has adjudicated on all the important legal cases in the district, and he sits on the Bench there as the Special Commissioner of the Govern-ment. Ithink, gentlemen, that you will agree with your board, in thinking that, in securing the services of Mr. Boe, they have obtained thinking that, in securing the services of Mr. Roe, they have obtained a valuable officer to safeguard your interests. After receiving the Soongan crashing we next expect to obtain practical results from the Nicol district and from the Peewah and Mallina group, the machinery for which was last sent out, crushings will follow in descourse. I consider that I should lay special stress upon the favorable nature of the reports upon our properties that we hear on all sides. In the matter of gold mines, as in every other matter is which many persons are interested, it is usual to find that more than one opinion exists with regard to their value, and it is not unusual to hear adverse opinions. Unanimity on the question of a mining property is rare indeed, but up to the present I have heard no adverse opinions expressed as to the value of these Consolidated properties. From my long and close connection with the Northwest district I have exceptional opportunities of meeting most, if not all, the men who come to England from that part of the colony, and I can assure you that, without exception, everyone I have met who is acquainted with one or other of our mines, has spoken in the highest terms of it. The reports that have appeared in the West Australian papers fully confirm the high opinion that has

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been so generally expressed on our properties. Gentlemental sales of the sales of t the field, and I am confident that it will turn out well. With regard to the Nicol properties, which were the last I inspected in the colony, I prefer the Lord Byron out of the groups which you hold. This claim I tested thoroughly, and although Mr. Calvert informs me that he will be more than satisfied if these properties average I cance to the ton, I am confident from what I saw, and the tests I made, that it will return far more than that amount, I did not examine the other leases very carefully, but the same reef traverses them all in a straight line, and I am of opinion that there is a very large body of ore, which it will amply pay to work.—(Signed) T. R. Bjass." We have a gentleman with us to-day—Colonel Henderson, one of the members of the board—who was the Chairman of the late Consolidated Company, and I should like to hear a few words from him.

one of the members of the Doard—who was the Chairman of the late Consolidated Company, and I should like to hear a few words from him.

Colonel Henderson said: Mr. Chairman and Gentlemen—As regards this present company, after the remarks which have fallen from our Chairman, I do not think there is very much for me to say. I have very recently joined the board, and, therefore, I am not quite to well up in its workings as some of my co-directors are. I can however, say this of one of the men whom we have selected to send ext-namely. Captain Marsh, who is now managing the Coongan Mine, that I have had some years' experience of him personally, and I do not think you could possibly get a more reliable, experienced, and honest man than he is. We can place implicit confidence on whatever he sends us home in the way of reports. If they are had, we may know he has good reason for making them so; and if good, then we may know still more—that he has abundant reasons for whathe says. The reports up to date, as the Chairman has told you, continue to be satisfactory, and we, on this side of the water, are promptly supplying all the facilities which they demand from us in the way of hauling, winding, and pumping machinery, tramwars, and such things; and if and when they demand from us a battery for crushing, and prove to us that we have at sight a sefficient quantity of good paying ore, which I hope will be very shortly, we shall immediately comply with their request in that matter too. But it is with regard to the old company, of which I was Chairman has told you, I held out hopes to the shareholders of that company that they would get a good bonus in shares. It was a good deal commented upon at the time, but I am glad to be able to state, on the authority of the Chairman, that that bonus has actually been allotted, and will be distributed to the shareholders within a very few days, so I think the shareholders of the old company will do us the jestice to say we have been able to keep faith with them. As far as I know, our pr

ood account of ourselves. Mr. A. TOOTH asked whether any of the directors proposed to visit

Mr. A. TOOTH answer whether any the mines this year.

The CHAIBMAN, in reply, said that he could not answer for the other directors, but he was able to inform the shareholders that he, personally, would certainly be leaving England for Australia within the next two months. On his arrival there he would look over all the next two months. the properties of the company, and see what was going on. (Hear,

Mr. TOOTH proposed that a hearty vote of thanks should be accorded to the Chairman and directors for the able way in which they had explained matters to the shareholders. He hoped they would reap the success they were expecting.

Mr. SPRINGTHORPE seconded the resolution, which was unani-

The CHAIRMAN, in acknowledgment, said: Gentlemen—I have to thank you on behalf of my co-directors and myself for the vote you have passed. As in the past so in the future we shall continue to do our best, and we hope we shall be successful in our management of this company. (Applause.)

The proceedings then terminated.

RAND-RHODESIA EXPLORING COMPANY, LIMITED.

Anextraordinary general meeting of the Rand Rhodesia Exploring Company (Limited) was held on Monday, at the Cannon-street Hotel, Mr. W. A. WILLS (the Chairman of the company) presiding. The notice convening the meeting having been read,
The CHAIRMAN said: Gentlemen—You have heard the notice convening the meeting, and no doubt a good many of you have come here with your ideas more or less fixed upon the subject of this proposed increase of capital. Perhaps before going into that increase it would be well that I should take the opportunity of giving you some information as to the progress of the company; that I should tall you something about its management, and then give you the reasons for which we suggest this increase of capital. You will remember that this company is still practically a young concers. It was registered in December last, and at the end of June we declared a 10 per cent. dividend. At the same time, we sent out a circular to the shareholders announcing that the company had already carned profits, some of which were realised, and some of which were still unrealised, to the extent of about 50 per cent, of the issued capital of the company. It gives me a great deal of pleasure to report to you that since then that reading that he have restrictly inversed and to the extent of about 50 per cent, of the issued capital of the company. It gives me a great deal of pleasure to report to you that since then that position has been materially improved, and if you like I will give you a few data as to the realized transactions, and as to our unrealised profits. With regard to the realised profits, I may tell you that this company acquired several syndicate interests in some large blocks of new shares, which were originally purely Johannesburg companies, and which have now been introduced on the London and Paris markets. We held a considerable block of New Orion shares, which was sold at a profit, and of Minervas, also sold at a profit. A great many of these shares have since materially appreciated in although there is a considerable share and may go still higher, but our policy has been one of constant realisation. In other words, we are not a company for the

collection of scrip, and we think we are following your wishes in realising profits when opportunities occur. We had an underwriting interest in Buluwayo Waterworks and the Matabele Central Estates, both of which cost us nothing, and the former of which has been realised at a good profit. We had a substantial profit over a parcel of the Monastery Diamond Mine shares, which has been realised. We had a considerable interest in the Rhodesia Gold Fields, at par; this profit has been realised. We had a considerable interest, at what I may call a starting price, in the Horsham-Moniter Syndicate and in the Vesta Gold Mining Company. These shares have also been disposed of at a profit. In each of these cases the prices we sold at have since improved, and there is every possibility that they will still further improve, but it can be easily understood that we and in the Vesta Gold Mining Company. These shares have slobeen disposed of at a profi'. In each of these cases the prices we sold at have since improved, and there is every possibility that they will still further improve, but it can be easily under tood that we are not able to hold all the shares we buy. With regard to partly-realised or unrealised profits it is here where our makin success has been achieved. We hold 23,500 shares in a company, the name of which it is not advisable to publish, which cost us on an average 7s. a-piece. The present price is about 27s. 6d. We have disposed for cash or under option of the whole of this large option of this large parcel to an important Paris firm, on a basis which should leave a profit of £19,962 10s. We have also 3275 shares in a small syndicate, which we acquired at 40s.; they now stand at £4 in the market. We have 5000 shares in the Africa Trust, which cost £1. These shares are now at £3 in the market, and as influential German people have taken a large option of the roserve issue at a big premium, there is every probability we shall get a still higher price when we realise. We have also the call of 5000 Africa Trusts at 25s., so that, taking to-day's paper values as a basis, you have made something like £22,000 ont of Africa Trusts alone. (Applause.) We have also nearly 3000 shares in another small syndicate which cost us par. These have improved to £3 since we bought them, and in all probability they will go to £5. We have a small share in an important pool, which shows a profit of about 100 per cent, and several other interests. The managing director has made out a statement, showing our position to date. That I find to be this—that over and above the 10 per cent. dividend paid at the end of June, we have made a profit, partly realised, of about 100 per cent, and several other interests. The managing director has made out a statement, showing our position to date. That I find to be this—that over and above the 10 per cent. dividend paid at the end of June, we of £46,000, of which one half is already invested, you cannot avail yourselves of many of these opportunities. To remedy that, there were two courses open to the company. One was to increase the ordinary share capital; the other was to issue preference shares or debentures. Well, Gentlemen, Rand-Rhodesia shares stand to-day on the market at £2, and I think they are worth rather more than that. It would be hardly fair to the original shareholders and the present shareholders of the company to water the stock at anything like that figure. On the other hand, there is a very large class of investors, both in this country and on the Continent, who are quite satisfied with a 6 per cent. preference interest, where that interest is in a company that is honestly managed and conducted with some measure of success. Under these circumstances, we think that it would be better to ask the shareholders to authorise an issue of 6 per cent. capital, rather than to increase the ordinary share capital of the company. This is the suggestion with which we come to you to-day. cent. capital, rather than to increase the ordinary share capital of the company. This is the suggestion with which we come to you to-day. I think, on the other hand, that perhaps, not immediately, but from time to time, we shall easily place either here, in Paris or Berlin, the whole of the 6 per cent, issue, which will then give you the command of £100,000 of fresh capital at a cost of £6000 a year. I feel quite certain in my own mind that this will be the best course that this company could pursue, and that the £100,000 will be worth infinitely more than 6 per cent. to us, even in bad times. Before moving this resolution, I would like to tell you that some progress has been made in organising the management of the company. The resident director in Johannesburg, Mr. Lomas, has returned to that town, and there is no doubt but that he will be able to obtain for us participations in blocks of ground and farms in that country. We have opened a Paris office, and the Count de Montjou and M. Jules Aghion have been constituted as a Paris committee, and have already. I may say, in the case of Count Montjou, rendered excellent service to the company in placing the large line of shares I mentioned to you. At present nothing further occurs to me to tell you about the progress of the company, but if any shareholder have any questions to ask, I of the company, but if any shareholder have any questions to ask, I shall be glad to tell him anything which can be teld without prejudice to the interests of the company. I daresay Mr. Cannell have some remarks to make. He has accepted the post of the managing director to the company, and is now devoting a large share of his time and attention to its affairs. I have now to move:—

ne and attention to its affairs. I have now to move:

1. That the capital of the company be increased to £150,000 by the creation of 100,000 new shares of £1 cach. 2. That the new shares be called A shares, and that the holders thereof be entitled to a comulative preferential dividend at the rate of £5 per cent, per annum on the nominal amount of such shares, which dividend shall be payable half-yearly.—3. That the company shall be entitled to create further new shares to rank in all respects pair parm with the said A shares.—4. That the rights of voting conferred by the A shares shall be, on a show of hands, the same as those conferred by the ordinary shares, but on a poll each A shareholder shall have one vote for every complete four shares held by him.—5. That, in the went of the company being wound up, the surplus assets thereof shall be applied. In the first place, in repaying to holders of the A shares, and of any other shares entitled to rank pay passs with them, the full amount paid up thereon, and that, subject as aforesaid, such surplus assets shall belong to and be divided among the other members of the company.

Mr. ARNOLD seconded the resolution. He wished to know, at the

to and be divided among the other members of the company.

Mr. Arnold seconded the resolution. He wished to know, at the same time, whether the original powers given under the Articles for increasing the capital had been exhausted. He also asked whether there were any absolute arrangements for placing this new capital. He thought the shareholders might congratulate themselves upon the position now occupied by the company, and they might hope that when the time came for another dividend it might be an even more satisfactory one than the last. (Applause.)

The CHAIRMAN said that when the company was floated it was practically at the beginning of the great Kaffir boom, when the facilities for raising capital were nothing like what they were at present. Under the circumstances, the issue of the capital of the company was guaranteed by a small syndicate of persons, in which

present. Under the circumstances, the issue of the capital of the company was guaranteed by a small syndicate of persons, in which syndicate he had a share. The issue was guaranteed at par, and the guaranteer received, therefore, the option of 25,000 shares at par for three years. That option had been exercised in practically every case, but there were still about 4000 shares which had not been called up. With regard to the new capital, they had made no arrangements for the issue of this, feeling there was no necessity to do so patil they had received newer from the shareholder. He arrangements for one issue of this, feeling there was no necessity to do so until they had received power from the shareholders. He might say there would be no underwriting, and beyond the ordinary advertising charges and commission to the company's brokers of 2½ per cent., there would be no charges of any sort or kind. (Applicance)

The CHAIRMAN then put the resolutions to the meeting, when they were unanimously agreed to.

On the motion of Mr. ALLEN, a cordial vote of thanks was passed to the Chairman, and the proceedings terminated.

AUSTRALIAN MICA.-Mica is known to exist in many parts of AUSTRALIAN MICA.—Mica is known to exist in many parts of New South Wales, being met with in the numerous granitic areas which occur in various districts of the colony, especially in the coarsely-crystalline granitic formations of the Silverton district, and elsewhere in the Barrier ranges. Hitherto, it has never been worked, although there is a considerable demand for it, especially if the mica can be obtained in blocks of fairly large size, capable of being with the state of the size of the s

NOLTZYKOP GOLD MINES, LIMITED.

The statutory meeting of the Noltzykop Gold Mines (Limited), South Africa, was held on Tuesday, at the Cannon street Hotel —Mr. D. MERCER, the Chairman presiding.

The SECRETARY (Mr. D. Langaton-Faddy) read the notice convening the meeting.

The statutory meeting of the Noltzykop Gold Mines (Limited). South Africa, was held on Tuesday, at the Connon street Hotel —Mr. D. MERGER, the Chairman presiding.

The Surgerary (Mr. D. Langston-Faddy) read the notice convening the meeting.

The CHAIRMAN said: Gentlemen—The law demands that we shall hold what is termed a "statutory meeting." Til obligation, however, in our case detracts in nowise four the pleasure with which your directors now call you together, for, although we have no business to a rorant, 'gives them a deviable or portunity of placing the screenive, and, as we believe, most valuable property and the place of the pl touched upon nearly all the points connected with this undertaking, and without being egotistical, think you may safely leave the rest in our hands. We are interested largely as shareholders, our shares and without being egotistical, thick you may safely leave the rest in our hands. We are interested largely as shareholders, our shares having been purchased and paid for in the market. In conclusion I regret to see so few shareholders here present, but I have noticed that at meetings of other companies that are successful which I have attended as a chareholder the same has been the case; it is only when disaster overtakes a company that shareholders turn up in great numbers, but from my point of view, I am of opinion that when your board have been successful in their efforts, it is only fair to expect a meed of congratulation, and take a few of the halfpence with the kicks. One word more. In the Articles your directors are only allowed £50 each per annum, which you may perhaps consider is quite sufficient, but you must bear in mind that to conduct an undertaking of this magnitude a wat amount of time and attention is required of your directors, and we venture to suggest that this remuneration is very inadequate; however, we will leave this matter entirely in your hands, and at the meeting to which I have referred, if the results justify our expectations—which we are sanguine enough to believe they will—we shall place the question before you for consideration. Before closing, I gladly avail myself of this oppportunity of congratulating my fellow shareholders on the possession of such a unique and valuable property, offering as it does such brilliant prospects for a bright and prosperous fature. If any shareholder would like to ask any questions, I shall be pleased to answer him. in our hands. to answer h'm.

A SHAREHOLDER: I should like to ask why, Sir, seeing that all necessary machinery is fixed and in working order, crushing has not already been commenced.

The CHAIRMAN: Our engineer advises us that before work of this character was commenced it was desirable to complete such necessary work as connecting levels by winzes, and securing means for over-head stoping in lieu of underhand, which had hitherto been adopted, the former means being much more economical than the latter; this work, however, is now nearly completed, and our engineer hopes shortly to be in fall swing.

Mr. Thomas proposed a vote of thanks to the Chairman, which was briefly acknowledged, and the proceedings terminated.

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THE WAITEKAURI GOLD MINING COMPANY, LIMITED.

The first ordinary general (or statutory) meeting of the share-holders in this company was held on Wednesday, at the Cannon-street Hotel, the chair being occupied by Mr. THOMAS RUSSELL.

The SECRETARY (Mr. Charles Akers) read the notice convening

e meeting. The Chairman said : Gentlemen—Generally at statutory meetings

the meeting.

The CHAIRMAN said; Gentlemen—Generally at statutory meetings there is no business to transact and no accounts to reader, and often not much information to be obtained. It is very seldom that it falls to the lot of directors to meet shareholders at the ordinary statutory meeting with such a full and satisfactory account of their enterprise from every point of view as is contained in the report now in your hands, and my duty as Chairman to-day is made peculiarly easy and pleasant by the abundant information already given in the report; indeed, the report has robbed me of my speech, for it contains everything of importance we knew up to the date of preparing it. The property we have acquired, which we believed to be a good one, is very much better—larger and richer than we had supposed when we purchased it; and though we have not long been owners of it, yet by an energetic course of development we have got to know so much more of it as to increase its value enormically, with this further element, that though the drive has been carried in good gold for 646 feet the large and rich reef upon which we are driving still continues rich. The report brought the date of the exploration of Corbett's level up to August 8, the drive then being 520 feet in length; two weeks' drivage have since then been reported by cable. Up to August 15, 13 feet more were driven, the stone averaging £3 7s, 9d., per ton, and up to August 22 (six days ago), the latest date reported, 13 additional feet were driven, the stone averaging £3 7s, 9d., per ton, or an average for the fortuight since the report was prepared of £7 7s. per ton, being considerably higher than the averages up to August 8 last, and on August 22 we had upwards of 2000 feet more to drive into the hill before reaching our boundary. We have by our explorations up to date conclusive proof that the property we are engaged in developing is one of the most valuable mining properties in New Zealand; indeed, it rivals in value and importance the Waihi Mine itself. Where August 8 last, and on August 22 we had upwards of 2000 feet more to drive into the hill before reaching our boundary. We have by our explorations up to date conclusive proof that the property we are engaged in developing is one of the most valuable mining properties in New Zealand; indeed, it rivals in value and importance the Waihi Mine itself. Where else can you find—except at Waihi—a rest which for 546 feet is over 20 feet wide, uniformly good, and worth over £5 a ton for 646 feet in one line of reef. The developments up to date fully warrant the present price of the shares, indeed, the public seem to keep an eye on the progress made, and shares advance in price as our successful exploration continues. Though at the time we felt safe in making the purchase of this valuable property, and we are now certain of much larger results than we had anticipated, yet wed on ott think that we have reached the limit of the developments we have in hand. We shall drive Corbett's level continuous'y to the boundary, at which point we should have about 400 feet of backs. I do not expect to, but we may, carry gold with us all the way for the 2000 feet we have to drive, but the indications are that we shall drive on gold for some time yet to come; there are no indications of its giving out; but, on the contrary, the reef appears to be getting richer as we drive into the hill. Our battery level will very shortly be 100 feet below Corbett's level, and we shall go on steadily, with the great tunnel still 300 feet lower down. I have already told you that my speech has been robbed of its novelty, and is really contained in the full and complete report you have in your hands. But for the many who will not read long reports, and to aid your memory in the future, I briefly put the points in connection with this great property brought out the property who will not read long reports, and our cash working capital. The mill has been exaring money, and our cash working capital for small property in the property of working capital. The mill

purpose of saving our ballow.—10. Too will observe that we have arranged for the abolition of the annual royalty which mineowners in New Zealand have found so oppressive and irritating. Our arrangement with the Cassel Company provides for the abolition, as far, as we are concerned, of future payments, and we now have the right to use the cyanide process free of cost. This is a considerable item, if we keep in view the developments which are now taking place, and likely to continue in the future.—11. These are salient points in connection with this Waitekauri property, which seems likely to become famous in the annals of New Zealand mining, and which in the report and speech I have set out at some length in order that every shareholder may get a clear idea of the value of his property. But the object of greatest immediate interest is to know how soon we are to begin to realise in dividends some of the great wealth which endoubtedly is in this unique property. The stamps at the small mill we have now running are too light to be effective, and quite unsuited for dealing with large quantities of stam; the mill is most neefully employed in crushing the ore we are taking out as we drive upon the reef, and by this means ascertaing beyond question its actual value, and while doing this valuable work it yields a profit which is available for a small dividend if

work it yields a profit which is available for a small dividend if necessary. Our arrangements have been made for a battery of 40 head of stamps. It will be a battery of modern type, capable of dealing with 20,000 tons per annum, and will be ready in May next, and nine months hence the new mill should be producing dividends; but, though it will be a powerful mill with 40 heavy stamps, it is manifest that it will not be large enough to deal with the quantities of ore which our more recent works have brought to sight in this great property. I am not in a position to tell you to-day what further milling extension we shall propose. Mr. Henry Russell, who has hitherto managed the property, will be in this country within a month, and after conference with him we shall determine this important question. It is quite clear we shall require a much larger battery than the 40 head arranged for, and Mr. Batry, the superintendent of the Walbi Mine, who is supervising the local management of the Walbi Mine, who is supervising the local management of the Walbi Mine, of such chiargement of its as the directors may determine. The average value of the ore as shown by the milling returns of the Golden Cross ore from the work it yields a profit which is available for a small dividend if necessary. Our arrangements have been made for a battery of 40 head of stamps. It will be a battery of modern type, capable

beginning and up to date is nearly £6. This ore should be mined and milled for 30s. a ton, but even taking the total cost at very much more, we still have a profit of £4 per ton; 20,000 tons of ore—which is about the output we may expect from 40 head of stamps—will yield an annual profit of £30,000. I give you there few figures, based upon actual results from the mill returns as far as the value of the ore is concerned, and approximate as far as mining and milling are concerned, leaving you to make their application as you feel disposed. They will also afford a basis for calculation for an increased output after further enlargements of our mill. At the recent Waibi meeting, when we told you of the valuable option we had reserved for you of taking 20,000 Waitekauri shares at £1 each, I gave you my advice to hold them. Those of you who took that advice, wholly or in part, have greatly profited by the hint I then gave. It is not wise to prophesy before you know, but sometimes coming events cast their shadows before," and I had more than a strong conviction that the advice I then gave you was right. I have more evidence now upon which to found the advice I give you to-day, and which is to hold your shares for 12 months, and I venture to say that if you do so you will give me a hearty vote of thanks at our next annual meeting thereafter. With regard to your holding in this property, it is and always has been beyond the reach of speculation. It is a mining investment. An investment which, from all its surroundings, promises to be one of the first order, which will yield you handsome dividends for many years to come—how many years, it is not possible to say; but from appearance, it will be years beyond the lives of the present shareholders. There is a strong family likeness between this property and the Waihi property. From neither of them can you obtain specimen stone of great value, but I do not know of any mines which undoubtedly contain such vast masses of payable stone where you can cut and come again, and still dry crushing is a more slow process than wet crushing, but it is a certain one. Experience has taught us that by careful manipulation we can increase our output. We have done so, and are doing so at Waihi, and as we progress in this direction we shall in both instances

Walhi, and as we progress in this direction we shall in both instances increase our profit, until, I venture to say, it will arrive at a point which will satisfy the most sanguine shareholder.

Mr. A. ROTHWELL, in proposing a vote of thanks to the Chairman and board, said the shareholders were deeply indebted to the directors for the talent they had displayed in picking out such a valuable property and securing it at so moderate a price. The Chairman had so clearly explained the position of the company that every shareholder must have come to the conclusion that they were "in for a real good thing." (Applause.)

Mr. BUCKLER seconded the motion, which was carried by acclamation, and the proceedings terminated.

EAST POOL.

A thirteen weeks' meeting of East Pool adventurers was held on the mine on Monday, when Mr. J. R. Beanwell presided over a large attendance

over a large attendance.

The accounts showed labour costs amounting to £5380 12s. 3d.; merchants' bills, £2367 6s. 6d.; Wheal Agar (contribution to water charges to end of July, 1895). £200; Illogan parish rates, £57 15s. 6d.; Stannary assessment, £7 16s. 1d.; total, £9013 10s. 4d. On the credit side it appeared that the tin sold realised £6123 19s. 11d.; copper, £70 5s. 6d.; arsenic, £1268 11s. 9d.; discounts, £48 7s. 3d.; dues in account, £33 2s. 6d.; carriage, £19 3s. 1d.; sundries, 18s. 9d.; and income-tax off rents, £2 7s. 3d. There was a loss of £446 14s. 4d.

Mr. Cornelius Bawden (purser of Wheal Agar) asked to be allowed to remain at the meeting. He bought 10 shares in East Pool from a gentleman, and sent to have them transferred on Wednesday morning so that he might be present at that meeting. He was very anxious to be present, and would give £5 to be allowed to do so—but the reply from the purser was that the transfer was tendered a day too late. It was very unusual that the transfer-books should be closed six days before the meeting.

meeting.

The CHAIRMAN replied that he was sure they would all be delighted to have Mr. Bawden's presence. If anyone had said he had no right to be present he had done so without consulting the Chairman. The presence of Mr. Bawden would relieve them of a certain amount of difficulty because—it was no news to anyone—the water question had been a matter of serious

The Purses explained that the notice sent out to share to shareholders stated that the books would be closed from August 20th to August 20th. He had not told Mr. Bawden that he had no right to be at the meeting.

The Chairman then moved the adoption of the accounts, re-

and he supposed this was the worst balance-sheet they had ever presented. The tin realised amounted to 198 tons last quarter, against 183 this, a difference of 15 tons, the average price being £34 15s. 3d., as against £33 9s. 3d. this, realising £68464s., as against £6123 19s. 11d., a decrease of £722 4s. 1d. The tin stuff brought to the stamps was 7192 tons last against £68464s., as against £6123 19s. 11d., a decrease of £722 4s. 1d. The tin stuff brought to the stamps was 7192 tons last, against 7234 this. Although there had been no diminution in the quality of stuff, the average produce had been poorer than it was, being 37 lbs. as against 40 lbs. Captain Bishop told them that they would have had more stuff, but for the lets and bindraness during the quarter, the strike and the holidays preventing work for ten days, which accounted for the ten tons decrease in the quantity of tin. Therefore, they had a loss on the present quarter of £400, and the question for the meeting was whother they should make a small call, and so wipe off the balance and maintain their reserve fund intact. Having in view, however, what Captain Bishop had told them in the in view, however, what Captain Bishop had told them in the report, knowing that the price of tin was a fraction better and would possibly continue to improve, the committee were inclined to carry forward the loss and not make a call. (Applause.) Well, it seemed at all events that the proposal found acceptance at the hands of the adventurers; so ready were they to receive dividends, but anxious to avoid a call.

Mr. Woolcook seconded the motion, and said that though for many years he had the pleasure of seconding the adoption of the accounts, he did not remember there ever having before been a suggestion of a call. He most sincerely hoped that at no distant date the accounts would show a much better balance on the other side.

The motion was then put and carried.

Captain Bishop presented the following report:

Engine shaft. At the 300 fathom level the crosscut is driven north towards the new north lode 11 fathoms. We hope to reach the lode in about 6 fathoms more driving. The 250 fathom level west on the north lode is worth £7 per fathom. The winze in this level is worth £15 per fathom. The 255 fathom level west is north £5 per fathom. The 255 fathom level west is worth £5 per fathom. The winze below the £03 fathom level west is worth £5 per fathom. The winze below the £03 fathom level west is worth £5 per fathom. The winze below the £03 fathom level west lode is communicated with the £25 fathom level. We are driving a level east from the last mentioned winze, which is worth £70 per fathom. The 250 fathom level worth £1 per fathom. One at the £25 fathom level worth £2 per fathom. One at the £13 per fathom. One at the £13 per fathom. One at the £140 fathom level worth £13 per fathom level worth £13 per fathom level worth £14 per fathom. The 240 fathom level east of crosscut is worth £15 per fathom. The 240 fathom level east of crosscut is worth £10 per fathom. The 240 fathom level east of crosscut is worth £10 per fathom. The 226 fathom level east of crosscut is worth £10 per fathom. The 226 fathom level east of crosscut is worth £10 per fathom. The 226 fathom level worth £11 per fathom level west is worth £12 per fathom. The 212 fathom level worth £13 per fathom level, This has opened some fairly good etoping ground,—

Etopes on the middle lode, One at the £22 fathom level worth £13 per fathom. Two at the £12 fathom level worth £12 per fathom. One at Captain Bishor presented the following report:-

the 200 fathom level worth £11 per fathom.—South lodes. The 130 fathom level east is worth £10 per fathom. The 140 fathom level east is worth £10 per fathom. The 70 fathom level west is worth £3 per fathom.—Slopes of the south lodes. One at the 120 fathom level worth £12 per fathom. One at the 150 fathom level worth £12 per fathom. One at the 150 fathom level worth £12 per fathom. One at the 50 fathom level worth £10 per fathom.—Tribute. We have 13 pitches working by 55 men, average tribute 31. id, in the £1.

in the £1,

Supplementing the report, Captain Bishor said there were
one or two points which showed an improvement. The crossent
near the engine shaft had been driven towards the north lode
in the 300 fathom level, and was about 6 fathoms from the lode. in the 300 fathom level, and was about 6 fathoms from the lode. The slow progress was due to the fact that they had been working with hand labour, and because they were not disposed to work with the water against them. With regard to the find in the eastern end on the North lode they had valued it at £70 per cubic fathom. (Applause.) He did not want them to think that he was unduly elated when he put the valuation down, but the produce from the level really came to 3 cwts. of tin to thoton Unfortunately there was only about 9 fathoms to drive to the boundary, but it was a valuable piece of ground, and he only wished that it was longer. The important matter for them to discuss that morning was as to the Wheal Agar water. The men had all gone out on strike again that morning, and he told those who were working below the level that they could follow their own course; but those who were working above the level, and, therefore, out of danger, wereto go back again to work, or he would not allow them to work on the mine again. During the

and, therefore, out of danger, wereto go back again to work, or he would not allow them to work on the mine again. During the strikes last year they were totally idle.

Mr. Heard remarked that the water question was one of apparently great difficulty. A reference to arbitration seemed a reasonable course. He had been told that Wheal Agar committee had endeavoured to get an interview with the executive of East Pool, but had failed. It seemed to him that this interview had a stank could do more with five minuted.

of East Pool, but had failed. It seemed to him that this interview should be granted, as they could do more with five minutes' conversation than with any amount of correspondence.

The Chairman stated that the committees certainly had a meeting, and certain schemes for amalgamation were brought forward; but at a meeting of the Wheal Agar adventurers the terms were not thought good enough. There had been a good many letters written from one side and the other, and so far as East Pool was concerned they made renewed propositions which were also rejected. As there was such divergence of which were also rejected. As there was such divergence of opinion they though a reference to arbitration would be the opinion they though a reference to arbitration would be the most practical way to come to a just decision, and a letter had been addressed to the purser of Wheal Agar repeating this proposition. Since then a private letter had been received by gentlemen connected with both mines, and he looked upon this as an indication that Wheal Agar committee might be willing to approach the matter again. The letter was from Mr. Hamilton, and was received by Mr. Lanyon, and it, at all events, breathed the spirit of amalgamation, if not a reference to arbitration. In the presence of the purser of Wheal Agar he would say that they really desired to see a stop put to the dispute and tration. In the presence of the purser of Wheal Agar he would say that they really desired to see a stop put to the dispute, and he hoped he would impress upon his committee the sincerdesire of East Pool to meet and talk over this matter. There was no doubt in the world that this water question was East Pool's stumbling-block at the present moment; they were quite aware that their pumping machinery was not sufficient to pump water from their own and Wheal Agar sett as well. If only Wheal Agar shareholders worked their sett there would be an end of the difficulty, but while Wheal Agar engine was stopped East Pool was in danger, and it remained to be seen how that difficulty could be got rid of. He hoped that instead of writing exasperating letters, and talking in an exasperating way they exasporating letters, and talking in an exasporating way they would act as business men and endeavour to find a solution to

exasperating letters, and talking in an exasperating way they would act as business men and endeavour to find a solution to the difficulties. They had not only their pockets and their mine to look to, but they must think of the future and see if mean could not be adopted to get more tin and a better price, which would enable them to get back some of the losses they had made. They were willing to meet the committee of Wheal Agar or to refer the matter to two arbitrators, who, if they could not agree, should call in an umpire, and he was quite certain that two or three gentlemen could be found who could decide the matter fairly, and come to a satisfactory arrangement. It was a matter that would brook no delay, as the water was rising every day, and the danger became daily more acute.

Mr. Conwellus Bawden said that from the remarks which had fallen from the Chairman it would appear that Wheal Agar was at fault, but this was not so. Mr. Hattersley, on the Monday before the meeting, came down to Cornwall and telegraphed to Mr. Branwell, asking him to arrange a meeting that afternoon, and the reply was "No. Friday afternoon." Another telegram was sent saying "Mr. Hattersley wishes to get back," and Mr. Branwell then said he would meet him at Truro on the following morning. Ultimately a meeting was arranged to take place at Penzance on the Thursday evening, and the result was that an offer was made to purchase Wheal Agar for £2500. The amount was not considered fair, and arbitration was proposed, but the East Pool gentlemen would not listen to it. Wheal Agar had always suggested arbitration, but it had been refused. On July 9th and 10th the engine was kept at work to give East Pool time, and when he wrote again of August 19, and repeated the offer to accept 600 shares in the united mines, £2500 cash, or submit the matter to arbitration. East Pool had never shown Wheal Agar what they wanted, and as no arrangement could be come to the engine was stopped. The gentleman who had the largest share in Wheal Agar had no inte

years, when

Mr. Lanyon said he hoped this would not be allowed.

The Chairman said Mr. Bawden had entertained them with a long speech, and had said that East Pool had declined to negotiate, and Wheal Agar had always been anxious to submit the matter to arbitration. If East Pool had lagged behind they were now, at any rate, willing to receive arbitration.

Mr. Bawden asked why East Pool did not endeavour to bring about arbitration, or make an offer. The engine worked 10 or 12

about arbitration, or make an offer. The engine worked 10 or 12 weeks waiting for an offer for arbitration which did not come until the engine had been stopped 10 days.

At this point the CHAIRMAN read the offer made on June 12 as agreed upon at the conference (1) that the engine should be a proved at the point arrange of the regime of the private o

worked at the joint expense of the mines; (2) that the mines should be amalgamated, and Wheal Agar receive 600 shares; and (3) that East Pool should purchase the plant, &c., of Wheal Agar for £2500. These offers were rejected the other day by East Pool, and in addition arbitration was suggested between the tension of the tension o

was stopped. Mr. Rogers asked whether Mr. Bawden would consent to an

arbitration on behalf of Wheal Agar.

Mr. Bawden replied that he was not the owner of the mine and could not, therefore, give any undertaking on behalf of the shareholders.

Mr. Lanyon said they did not appear to have made any progress. He was anxious to avoid a calamity and to settle the difficulty in a business-like way. It was only fair to Mr. Hattersley to say that in an interview with him he expressed his desire to do what was thoroughly honourable and fair in the

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de any tle the o Mr. pressed in the matter, and to avoid taking any advantage of anybody. He did not healtate to say that since that interview it seemed that influence had been brought to bear upon Mr. Hattersley which had entirely altered his opinion as to the proposals made. (Hear, hear.) It was plain that arbitration would solve the difficulty. If they were to avoid a catastrophe the matter would have to be dealt with at once; it was of no use waiting for another ten days, and arbitration was the proper way to settle it. If Mr. Bawden had the power, let him now say would he consent to the matter going to arbitration.

Mr. Bawden: No; I have no power.

The CHAIRMAN: Are you wishful to have arbitration, and are you willing to help bring it about?

Mr. Bawden: Yes, and I should like to read letters here to prove I was willing from the commencement.

The CHAIRMAN: Will you promise to bring it before those you represent?

you represent?
Mr. Bawden: If you will call a meeting of the two committees to do it.

Mr. HEARD moved :-

Mr. HEARD moved:—
That the adventurers in East Fool at their general meeting regret exceedingly that no solution of the water question has yet been arrived at, and thoroughly endorse the resolution of the committee of the 9th August, and entirely approve of reference of the whole question to arbitration in the mush way.

entirely approve or reference of the whole question to arbitration in the minal way.

Mr. Bann seconded, and said he hoped Mr. Bawden would do his best to help the matter forward, otherwise they might see something which all would extremely regree.

The motion was then put, and carried.

Mr. W. G. Goddard said that by encroaching Wheal Agar had taken away 10 feet which had been left for a boundary, and had thus allowed the water to have access to East Pool at a much lower depth than otherwise would have been the case. If Mr. Hattersley was in favour of arbitration before, it was curious that he had altered his mind. He maintained that there was far more reason now than formerly why Wheal Agar should consent to a settlement, as by encroaching they had made access to the water easier, and if any action was taken in the matter it would not be only the question of the amount of tin taken away, but the increased pumping charges and additional danger due to this encroachment.

In the course of further discussion Captain HAMBLY said there was no danger of the water coming in before the end of another

Week. Ultimately, Mr. Milford, suggested, as the only method of avoiding the danger, that East Pool should work the engine for

Mr. Rogers opposed this view.

The Chairman moved that the engine should be set to work at once, and that East Pool bear the expense for a month. This would give time for the Wheal Agar committee to come to a

settlement.

Mr. Lanyon seconded, and the motion was carried.

At the conclusion of the meeting the Charman announced that Mr. Goddard, on behalf of the Tehidy estate, had agreed to forego the dues for the past quarter. (Applause.)

The meeting terminated with a vote of thanks to the

ANGLO-GERMAN EXPLORATION COMPANY OF WESTERN AUSTRALIA, LIMITED,

The statutory meeting of the shareholders of the Anglo-German Exploration Company of Western Australia (Limited) took place yesterday, at Winchester House, Old Broad-street, Mr. W. F. Orriss (the Chairman of the company) presiding.

The Secretary (Mr. E. Fairweather) read the notice calling

Mr. W. F. Orrises (the Chairman of the company) presiding. The Secretary (Mr. E. Fairweather) read the notice calling the meeting.

The Chairman said: Gentlemen—As you are doubtless sware, the meeting to-day is a purely formal statutory one, and is held in compliance with the requirements of the Joint-Stock Companies Acts, but it gives the directors an opportunity of affording some information which will be interesting and acceptable to the shareholders. This company was registered on May 1, 1895, with a capital of £100,000. It is gratifying to be able to state that there is a free market in these shares, both here and in Germany (10s. paid), at about 300 per cent. premium on the amount paid up on the shares. Since I have been in the room a co-director of mine, who is a member of the Stock Exchange, tells me that the premium is 400 per cent., but I was anxious to be well within the mark. Your directors were anxious to obtain the services of the best mining engineer obtainable to go out to Western Australia on behalf of this company, and on the advice of Mr. Spiegel, our director in Berlin, and Mr. Strange, we approached Dr. Albano Brand, professor of geology and metallurgy in Berlin, and consulting engineer to some of the most important mines in Transylvania, and author of several standard works on mining and the treatment of ores. We have been fortunate in securing his services, and he sailed from Naples on the 18th inst. on board the 2s. Orotzes, accompanied by Mr. Schoppelt, a first-class miner and engineer, and late manager of a mine at Transylvania, as his assistant. I should tell you that these two gentlemen have been associated together for some long time, and the directors corsequently thought it was very desirable to secure Mr. Schoppelt's services. We expect these gentlemen will arrive in Perth about the second week in September. Dr. Brand, previous to his departure, obtained the permission of the directors to order an improved pattern of ball mill for trial crushing of ore, and also to order furnaces stea the titles of any properties we propose to purchase. We have Mr. George Seymour, of the well-known firm of Bainhave Mr. George Seymour, of the well-known firm of Bainbridge, Mr. Seymour and Co., on whose reports werely, and by whose help. Besides these gentlemen we have the Hon. M. Hume Black, late Minister of Land for Queensland, and Dr. Albano Brand, whose name carries great weight all over Germany, and arrangements are pending by which the directors hope to secure other important representatives on the fields. The value of the arrangement referred to has been proved in a very practical manner during the past week, when the first issue was made in which this company is interested—namely, the Golden Cement Claims (Limited). This property was acquired by the Venture Syndicate, and the interest taken in it by this company

will result very largely to its benefit. Indeed, the directors fully anticipate being able to declare a dividend at the rate of 100 per cent. per amoun for the four months ending August 31, on the amount paid up on the shares, which I think you will agree is an exceptionally favourable result for the very short period the company has been in existence. I must not pass over the very valuable assistance which has been rendered to us by our Berlin director. Mr. E Spiegal and fully recognize the interest taken in our able assistance which has been rendered to us by our Berlin director, Mr. E. Spiegel, and fully recognise the interest taken in our company by our German shareholders, who alone sent in this week applications for ahout twice the entire issued capital of the Golden Cement Claims (Limited) and to whom the directors will no doubt give a liberal allotment. The Golden Cement Claims, as you are probably aware, was subscribed several times over, and the shares now stand at a substantial premium. The value of the co-operation on the part of our German shareholders will be a great source of strength to us in the various issues we shall be making from time to time. Now having informed you of what your directors have done in the past, it may be interesting to you to learn the prospects we can hold out to the shareholders for the future, and without going into details of all the properties acquired, in which this company is interested I am glad to be in a position to state that we have been fortunate enough to secure properties which are at present being developed I am glad to be in a position to state that we have been fortunate enough to secure properties which are at present being developed and which will eventually be issued, and we hope meet with an equal success to our first issue, and out of which the shareholders of this company may look for considerable profits. It may interest you to have some information concerning the Cement properties in which this company has been fortunate enough to secure an interest—and those of you who saw the Golden Cement Claims prospectus will know that the property sold to that company for £150,000, and known as the MacManus Leases, is estimated by Mr. Saymour to contain about 12 acres of the cement formation. prospectus will know that the property sold to that company for £150,000, and known as the MacManus Leases, is estimated by Mr. Seymour to contain about 12 acres of the cement formation. By a recent cable we learn that as the result of the capable and energetic action of the officers of these four companies, further blocks of a similar deposit adjoining the MacManus Leases have been acquired, amounting in all to an area of no less than 300 acres or thereabouts of this cement formation, from which you will be able to form some idea of the possibilities the future may have in store for these companies. In addition, we have interest in other valuable properties located on the various fields, including claims at Oue, Bardoc, Hannan's, I.O.U., and Menzies. With regard to the property at Hannan's I may mention that it is reported by our representatives to be on the line of the Great Boulder Reef, and that a company has just been registered under the title of the Great Boulder Main Reef (Limited), with a capital of £120,000, to take over this property, all the necessary capital being already practically assured. I hope that the statement that I have been able to make to the shareholders to-day, will give them every satisfaction, and considering that [this company has only been in existence for a period of four months, to be able to obtain a premium of 300 per cent on the capital invested, and to have earned a dividend at the rate of 100 per cent. on the amount paid up in so short a time, will, I hope, convince the shareholders that the board have spared no effort in looking after the interests of shareholders. (Applause.) If any shareholder wishes to ask any question I shall be glad to answer it. Perhaps I should further add, with regard to the Great Boulder property to which I have just referred, that this company has a quarter interest in that property.

Mr. Bismanch: Whatinterest has the Anglo-German Explo-

Mr. BISMAROK: What interest has the Anglo-German Exploration Company in the various properties? Is it a fourth

ration Company in the various properties? Is it a fourth interest?

The CHAIRMAN: That is the arrangement we are working under at present. The properties the Anglo-German Company has the right of participating in will be acquired by the West Australian Venture Syndicate, and, under the arrangement they refer to, the Anglo-German are participating to the extent of one-fourth. I would like the shareholders to understand that this arrangement is distinctly a reciprocal one, and that the Venture Syndicate will also participate to a corresponding extent in any properties which the Anglo-German may subsequently acquire.

Mr. Rickard: I think we should feel at the first impulse, in having such a wonderful account as that which we have now heard, that the enthusiastic thanks of the meeting are due to the Chairman and the board. (Applause.) I consider it is one of the most remarkable statements which I have ever heard on the part of a young company. Particularly with regard to this wonderful golden cement, it is something to "stagger one." If, as I suppose, we have good grounds for believing the statements which have been put forward by the engineers should prove to be correct—and I certainly, for myself, have great faith in them the value of the cement will—turn out to be something that will eclipse even the Mount Morgan. I say, if these statements are correct, an acre of that material—taking 5000 yards to the acre—would be very little short of 100,000 tons, which, calculated at even the half or the quarter of the average of the assays which have been reported, would make such a frightful figure that I would be afraid almost to state it. But there it is. The material, it seems, has not to be got at by expensive and dilatory mining work; it is at the surface, and there seems to figure that I would be a fraid almost to state it. But there it is. The material, it seems, has not to be got at by expensive and dilatory mining work; it is at the surface, and there seems to be no excuse even for anyone making a mistake in the estimate of the value of the material. I think there is no doubt about it, that the shareholders of this company, and of the sister company, have very good grounds for congratulating themselves on the wonderful start which they have made, and I believe it augurs a very fine history indeed for this enterprise. (Applause.)

believe it augurs a very fine history indeed for this enterprise.
(Applause.)
Mr. H. Collins: I have great pleasure in seconding this vote of thanks. It is a very pleasant thing to me personally, for I am not only a shareholder in this company, but also in four allied companies. (Applause.)
The resolution was then put and carried by scclamation.
The Chairman: With regard to Mr. Rickard's statements as to the value of this property, as the shareholders will have seen in the prospectus of the Golden Cement claims, although the ore assays 18 ounces to the ton, the directors of that company have thought it prudent—and I entirely agree with them—to base their calculations on the extremely modest and conservative estimate of I ounce to the ton. Even at that calculation, the returns are, I might almost say, phenomenal, and the public clearly realise this fact by the huge subscription that we have clearly realise this fact by the huge subscription that we have received. Many of the applications are traceable to professional mining engineers, and other men, who are peculiarly competent to form a correct estimate of the value of property of this

ExpLosion at the Carnegie Steel Works.—An accident, attended by loss of life, has occurred at the Carnegie Steel Company's works at Braddock, Pennsylvania, U.S.A. One of the furnaces exploded, with the result that nine men lost their lives, and 16 others were injured, five fatally. The explosion was caused by the act of one of the workmen, who dumped a barrow into the bell furnace, but then forgot to raise it. The effect of this was to clog the furnace, and the gas was thus prevented from escaping. As the men who had to remove the material were leaning over the furnace the explosion occurred, and they were at once overcome by the escaping gases.

THE

WEST AUSTRALIAN TRUST,

LIMITED.

Will make the following issue:-

THE NORTH WHITE FEATHER CONSOLIDATED GOLD MINES

(LIMITED),

White Feather District

(96 ACRES.

CAPITAL, £225,000,

Divided into 90,000 Preference Shares of £1 each, of which 55,000 will be set aside for Working Capital, and 135,000 ordinary shares of £1 each.

The above Company will be Advertised

WEDNESDAY, SEPTEMBER 4th.

Prospectuses

will be ready on Tuesday, and will be obtainable of the Broker,

ALFRED J. BENJAMIN,

1, Austin Friars, E.C.,

And at the Offices of the Company,

54, Old Broad Street, E.C.

All of the cash required having been guaranteed, the Directors will proceed to allotment on or before

FRIDAY, SEPTEMBER 6th.

THE

DIRECTORS OF FIRST REPORT OF THE FIELDS. LIMITED BRITISH GOLD

For the period April, 1894, to June 30, 1895.

Presented at the ANNUAL GENERAL MEETING, held at the Offices of the Company,

POULTRY, LONDON, E.C., on THURSDAY, 29th AUGUST, 1895.

Mines: Dolgelly, North Wales.

HE directors have much pleasure in presenting to the shareholders their first report, and a balance-sheet and profit and loss account, covering the period from the formation of the company in April, 1894, to June S0, 1895. Owing to the entangled position of the estate, and the necessity of obtaining the sanction of the Court of Chancery to the terms of purchase, the work involved in obtaining the property was heavy and protracted, but the directors are satisfied that the company is now in possession of a good and valid title to all the properties.

The property of the company consists of two freehold estates in the county of Merioneth: Caecyrach, about 171 acres in extent, with a farmhouse, and Tyddyngwladys, about 315 acres, with a substantial stone-built residence, cottages, and other buildings. There are leases, having about 30 years to run, of the Gwynfynydd estate, about 500 acres, at a rental of £300 a year, and Cwmhesian, 450 acres, at £150 a year. The company also possesses Crown mining leases of Llanfachreth, 200 acres; Llanfachreth Penrhos, 233 acres; Dolfwynog, 298 acres; Byrntirion and Abereden, 457 acres; and about 4500 acres in the county of Wicklow. The Crown has also granted 13 take-notes to the directors in Merioneth extending over 2700 acres. The total area in the hands of the company is 9884 acres. The principal mine and the mill are situate upon the Gwynfynydd leasehold estate. Immediately on acquiring possession the directors had been led to believe steps to develop the property, which is in a state of neglect and disorder, owing to disuse. Work was commenced by pumping out the old mine, in which the directors had been led to believe there was payable rock in sight when the previous proprietors were compelled to relinquish work. The nine was cleared and some prospecting work done, but without adequate result.

NEW ADIT LEVEL.—Prospecting work was, therefore, started in the abandoned workings in the new adit level. This was attended with gratifying success, and by the beginning of August suf

MACHINERY.—A sorting floor has been erected close to the mouth of the mine, new and improved tip wagons have been purchased, and the machinery and plant otherwise improved.

All is in good working order. The machinery and plant are not of the most modern type, and the working is not unattended with difficulty, as it is not easy in the United Kingdom to obtain the proved with difficulty, as it is not easy in the United Kingdom to obtain the proved with difficulty, as it is not easy in the United Kingdom to obtain

All is in good working order. The machinery and plant are not of the most modern type, and the working is not unattended with dimentity, as it is not easy in the United Kingdom to obtain thoroughly qualified men to operate gold mining and reducing machinery.

RIVER MAWDDACH PURIFICATION.—Representations were made to the directors, by the Board of Conservators and residents in the locality of the mine, that during the whole period, since the erection and working of the mill, the fishing in the Mawddach had been seriously interfered with by the discharge of tailings direct into the river, and that no attempt whatever had been made by previous owners to deal with the matter. The directors anxiously considered the courteous representation made to them, and after examining many schemes, they adopted a plan, which is on the eve of completion, and they hope it may be attended with success. The dam has been constructed so that it may be brought into use, should it hereafter become advantageous to deal separately with the tailings. This work will, at any rate, evidence to their neighbours that the directors are anxious to do everything in their power, consistent with maintaining the great industry in their hands, to abate the inconvenience which gold mining on a large scale must necessarily impose on the sport of the neighbourhood.

REVENUE, WORKING EXPENDITURE, AND PROFITS.—The following table shows, month by month, from August, 1894, the working expenditure and revenue as classified under the various headings. The summary gives the net profit of 19s. 5-63d. per ton calculated on the basis of the tonnage milled.

STATISTICS OF MONTHLY WORKING EXPENDITURE AND REVENUE,

For the period of April, 1894, to 30th June, 1895.

WORKING EXPENDITURE.

					1	Minls	ng H	txpen	ses.			Trai	nspo	rt I	Exper	nees.			M	illing	Exp	ense	M.			G	enemi	Oh	arge	l.		Total	Wor	king	Exp	penses	
1884 60	1895,		Tonnage Milled.		-	Cost,				Cost r ton.		0	ost.			per t			Co	ost.			Co per t				Cost,			Cost per ton.		Con	t.	-^			ton.
April to July	***		-	£	984	12	7	***	1	7.13		-	-			_	-			_			_		£	1,101	13 1	1 .		1 8.77		€ 2,086	6	6	***	3	3.90
August	***	***	444	***	474	11	9	***	21	4.23	£	67	7	6	***	3 ()42	£	44	11 10) .	. 1	2 0	-01	***	265	7	0 .	1	1 11:43		851		1	***	-	4.39
September	***	***	736	***	435	12	8	***	11	10.05		68	14	9	***	1 10	0.41	***	129	7	3.		3 6	5.18	***	265	7	0	***	7 2.55		899	1	8		24	
October	***	***	946	***	527	2	6	***	11	1.73	***	77		6	***		7.68	***	130		3.	:			***	265		0	***	5 7.3	***	1,000	11	3		21	
November	***	***	1,556		584	- 0	1	***	7	6.07	***	135		4	***		8.90	***	118	10	9 .			5.28	***	265	7	0	***	3 4.93		1,103	15	2	***	14	
December	***	***	1,401	***	652		0	***	9	3.71	***	155	10	0	***		2.64	***	99	1	в.			1.96	***	265	7	0	***	3 9-4		1,172	0	1	***		8.76
January	+++	***	1,040	***		18		***	15		***	134	1	4	***		6.94	***	87	4	3 .			8-12	***	265		0	***	5 1.23	3	1,305	10 1	11	***	25	1.26
February	***	***	1,604	***		13		***		11.91	***	107	8	0	***		4.07	***	186		8 .			3.86	***	265		0	***	3 3.76		1,039	13	4	***	12 1	1.54
March	***	***	1,639	***		11		***		10.70		126	5	-	***		6 49	***		15 1		**		5.25	***	265		0	***	3 - 2-8		1,075		0	***	13	1.39
April	***	***	1,268	***		13	_	***		11.45		127	5	9	***		0.09	***		19 1		**		0.90	***	265	7	0	***	4 2:23		1,081		1	***	17	0.17
May	***	***	696	***	680		9	***	19	6.20	***	48		1	***		4.74	***	150	-	ο.			3-64	***	265	7	0	***	7 7.50		1,144		8	***	32 1	0.38
June	***	***	1,023	***	592	19	9	***	11	7.05	***	85	19	3	***	1 8	8.16	***	226	5	7 .	99 '	4 5	5.06	***	265	7	0	***	5 2.23	***	1,170	11	7	***	22 1	0.40
m. s. s.			10014	-		10	10						10		,		_		410	10 /	-	-	_		-	4.000	**	-						-		_	_
Totals			12,354	£	7,363	19	10	***	11	11-07	2	1,134	12	D		1 1	0.04	£1	1,410	12 2	5 .	••	2	3.40	· 2	4,020	10 1	1	***	6 54		£13,929	15	4	***	22	8-97

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	1894 to 189	s.		Total Ounces,		Tield per ton,		Val:	ne of			Va Tield	per	of ton.		2	rofit.			Loss.		1	Pro			1	entage of loss,	
April t	o July	***	***	_	***	_	***		100		***		_		***		_		***	£2,086 6 6			-		***		d.	
August		***	***	229,275	***	.216	***	£778	19	0	***	£1	15	1.05	***		_		***	72 19 1	**		-		***	3		
Septem	ber	***	***	545,725	***	-741	***	1,777	12	7	***	2	8	3.66	***	£878	10	11	444	-		63.9	3	10.48	***		- 20	
Octobe		***	***	423,825	***	.448	***	1,430	13	0	***	1	10	2.95	***	430	1	9	***	now.				1.10	***		-	
Novem		***	***	847,100	***	.544	***	2,934	1	6	444	1	17	8.55	***	1,830	6	4	***	90.00	**		3	6 31	***		_	
Decem		***	***	1,019,325	***	.728	***	3,569	12	9	***	2	10	11.50	***	2,397	12	8	***	_	**		14	2.72	***		_	
Januar	y	***	***	155,175	***	.149	***	529	6	11	***		10	2.15	***		-		***	776 4 0	411		_		***	14	11.12	
Februs	MY	***	***	916,275	***	.571		3,260	18	10	***	2	0	7.92	***	2,221	5	6	***	_			7	8.36	***		_	
March	***	***	***	613,225	***	.374	***	2,105	17	4	***	1	5	8.27	***	1,030	17	4	***	_	**	. 0	12	6.90	***		-	
April	***	***	***	1,856,650	878	1.464	***	6,042	0	9	***	4	15	3.60	***	4,960	14	8	***	-	**	. 3	18	2-94	***		-	
May	***	***		632,800	***	-909	***	2,144	9	3	***	3	1	7.47	***	1,000	8	7	***	-		. 1	8	9	***		-	
June	***	***	***	476,425	***	.466	***	1,381	13	1	***	1	7	0.0	***	211	1	6	***	_	**	. 0	4	1.49	***		-	
	Totals			7,715,800				£25,955		0		_				£14,960	10	9		£0.007 0 7		61	-	0.01		-		
	Averages	***	***	1,110,000		•624		**********	0	U		£2	1	10.37		2,935	9			£2,935 9 7		£1 0	4	2.64 9.01		4	9.01	
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	***	***	***	***	Average cost per ton milled s	.11	10.07 .	£7,363	19	10	Mill Produce—	
		***	***	***	ditto						7,715,800 ounces yield per ton '624, value per ton £2 1s. 10.37d, £25,955 5 0	
	***	***		***								
ral Char	ges (including	deprecia	ation)	ditto	6	5.47 .	4,020	10	11		
										-		
					Balance, Net Profit			12,025	9	8		
								-		_		
								£25,955	5	0	£25,955 5 0	
									-	_		
1	ng sport ing oral Char	sport	sport	sport	sport	sport ditto ng ditto real Charges (including depreciation) Total ' Total '	sport ditto 1 ng ditto 2 ural Charges (including depreciation) ditto 6 Total '	sport ditto 1 10-04 ditto 2 3-40 ral Charges (including depreciation) ditto 6 5-47	Sport ditto 1 10-04 1,134 ng	Sport ditto 1 10-04 1,134 12 ng	spore ditto 1 10-04 1,134 12 5 ag ditto 2 3-40 1,410 12 2 ral Charges (including depreciation) ditto 6 5-47 4,020 10 11 Total * £13,929 15 4 Balance, Net Profit 12,025 9 8	Average cost per ton milled s.11 10·07 £7,363 19 10 Mill Produce— spors

AUDITED ACCOUNT.—The profit and loss account, as certified by the auditors, shows a net profit of £12,025 9s. 8d., after writing off £336 5s., one-third of the preliminary expenses, and £406 8s. 11d. for depreciation. There is a balance of £3799 10s. 3d. in cash and with the company's bankers. As is shown in the above table the net profit has been realised after charging the account, with expenditure, for nearly 15 months, although crushing; no plan of treating tailings has at prosent been adopted. The directors regret to have to call attention to the charge of £900, the estimated cost of litigation during the year. The chief item under this heat is due to the arbitrary action of the lessor, who, accompanied by his solicitor, but without notice to the directors, paid a surprise visit, in November last, to the mine, and having been technically and in error refused permission to inspect the workings, immediately took possession of the property. The prosperity of the mine being manifestly assured, the directors took immediate steps to repulse this attempt to wrest from the company its valuable estate, and moved the Court to eject the lessor. The action was successful; the lessor, on the second day of the trial, retired from the case, the company undertaking to pay the taxed costs. To this arrangement the directors assented with less reluctance, because it settled all outstanding points at issue between the lessor and the company. The shareholders will judge for themselves with what object the lessor paid his surprise visit with his solicitor, when it is stated that at no time, either before or since the alleged forfeiture, has the lessor concerned himself to attend at the mine to inspect the workings. The second case of litigation was with Mr. Pritchard Morgan, who was temporarily engaged as secretary. When the directors dispensed with his services he refused to deliver up the company's books. Application was forthwith made to the Court to obtain possession of the company.

AND THE RESERVE OF THE PARTY OF

of which he seeks to burden the company. The directors are saved and company.

SHARE CAPITAL.—The share capital of the company stands at the nominal sum of £100.

The value of the bullion produced amounts to £25,955 5s., and the net profit to £12,025 9s. 8d.

The total cost of the freehold properties, the leases, mine, mill, machinery, and plant, &c., with the preliminary expenses and subsequent capital expenditure on improvements, amounts to the small sum of only £23,608 17s. 3d. The gross liability of the company on the entire estate amounts only to £21,877 8s. 6d. After deducting cash in hand and amounts due by debtors, together amounting to £10,296 0s. 11d., there is a net liability for the whole property of only £11,581 7s. 7d. The £2500 mortgage on the Caecyrach Estate has been paid and the property placed in trust for the company. In present circumstances the directors propose to continue this policy of using the resources at their command to pay off the charges on the property, and consolidate the position of the company.

Arrangements have been made to carry out extensive prospecting operations on the ground covered by the take – notes granted by the Crown. The directors cannot conclude their report without placing on record their appreciation of the unvarying courtesy and consideration of the late Chancellor of the Exchequer and the Commissioner of Woods and Forests and his staff, in the important negotiations which have taken place.

(Signed) HALLEY STEWART.

E. H. DUNNING.

THOMAS BAYLEY.

The SUBSCRIPTION LIST will OPEN on MONDAY and will be CLOSED for LONDON and the COUNTRY on WEDNESDAY, the 4th September, and for the Continent on the following day, at 4 o'clock.

THE FAUVEL GOLD RECOVERY CO.,

INCORPORATED UNDER THE COMPANIES ACTS, 1862 TO 1890.

10,000 Shares are being held in reserve. CAPITAL £150,000, in 150,000 Shares of £1 each,

ISSUE of 140,000 SHARES. Of which 110,000 Shares will be allotted to the Vendor, as fully-paid, in part payment for the Contracts, Process, and Inventions hereinafter mentioned. The REMAINING 30,000 SHARES are NOW OFFERED for SUBSCRIPTION, payable as follows:—2s. 6d per Share on application; 7s. 6d. per Share on Allotment; and the balance in calls of not more than 5s. per Share, as and when required, at intervals of not less than three months.

DIRECTORS.

JOHN S. PRINCE, Esq. (Chairman of The Barrett Gold Mining Company (Limited, &c.), Chairman, 8, Cornwall Mansions, Cornwall Gardens, S.W.

Honourable ALEXANDER F. H. CAMPBELL, J.P. (Director of The McCulloch Coolgardie Gold Mines, Limited), 34, Draycott Place, S.W.

P. GERALD SANFORD, Esq., Metallurgical Engineer, F.I.C., F.C.S., &c. (late Metallurgical Department Royal School of Mines, and the Royal Mint), The Laboratory, 20, Cullum Street, E.C.

JOSEPH TAYLOR, Esq. (Director of the late Austral-Africa Exploration Company, Limited), 25, Montague Place, W.C.

Managing Director.

*CHARLES J. FAUVEL, Esq , M.E., Assoc. M. Inst. C.E., &c., Member of the Inst. of Mining and Metallurgy, Broad Street House, E.C., and The Laboratory, Cranford, Middlesex. * Will join the Board after Allotment.

Metallurgical Engineer.
CHRISTOPHER J. CLARKE, E.q., Assoc. M. Inst. C.E., 15, George Street, Manaion
House, E.C.

Consulting Engineers.
BAINBRIDGE, SEYMOUR and CO., St. Helen's Place, E.C.

Bankers.

THE LONDON JOINT STOCK BANK (Limited), Old Broad Street Branch, 55, Old Broad Street, E.C.

Auditors.
CURTIS THOMSON, LUCET, HICKS and CO., 15, George Street, Mausion House, E.C.

Solicitors.

VENNING, SONS, and CO., Gresham House, Old Broad Street, E.C.

Secretary and Offices. Mr. JOHN TUCKER, Broad street House, New Broad Street, E.C.

FAUVEL GOLD RECOVERY COMPANY (LIMITED).

This Company has been formed for the purpose of acquiring patent or other rights in valsable metallurgical processes and inventions, and to work, license, or sell to individuals, syndicates or companies the rights so acquired.

The first process proposed to be acquired is that known as "Fauvel's Gold Recovery Process," for the treatment of refractory gold-bearing ores, for which patent rights have already been granted in South Africa, the United States of America, the Australian Colonies, and other gold producing countries of the world.

Faurei's process is remarkably simple and economical. The ore having been previously p lverised to the required finences, is freed from deleterious ingredients by automatic roasting in such a manner that it largely provides its own fuel, and the gold having been thus liberated, is conveyed without any handling direct into an amalgamtor, where the precious metal is readily arrested. The cost of this effective and easy treatment is estimated, with coal at 30s, per too, to be covered by 2s. 6d. per too, whilst under more favourable conditions it might be as low as is. But even if the cost be estimated at 5s. for the treatment of a ton of a really refractory ore, there is practically no limit to the extent to which this process may be adopted.

The opinion formed of the value of Fauvel's process may be seen in the report by C. G. Warnford Lock, Esq., the author of "Practical Gold Mining," co-author of "Gold, its Occurrence and Extraction," and also from the report by P. Gerald Sanford, Esq., Metallurgical Engineer, F.I.C., F.C.S., &co

The opinion of Mr. J. Fletcher Moulton, Q.C., has been obtained as to the validity of the patent.

Without considering the numerous properties which, from the refractory nature of their ores, cannot now be profitably worked, but which the Fauvel process may again bring into active operation, and assuming that amongst the existing mines all over the world, only five hundred separate

plants are erected within a reasonable period, each paying a royalty of even one per cent to the parent company for the licence to use the process, it will be seen that considerable profits may accrue to this Company.

FAUVEL GOLD RECOVERY COMPANY (LIMITED).

As an illustration of the manner in which profits may accrue to this undertaking, let us assume that only 25 fernaces are erected in the early stages of the business, each with a capacity of 50 tons per day, and working 300 days in the year, then taking the average value of the ore at 12 dwts., and the yield in gold as equal to £100 daily from each plant, or about £30,00 per annum, a rayaity of 1 per cent. only would yield £300 a year for each plant. The 25 fernaces would therefore, yield £7500, and in like manner 250 would represent £75,000 per annum, with a proportionate increase according to the additional number of furnaces erected, and irrespective of the other sources of profit mentioned above. mentioned above.

mentioned above.

The vendor has accepted an offer by cable for all his patent rights in the United States of America, amounting to the sum of £100,000 in cash and abares, together with a royalty of 1 per cent. (about \$\frac{1}{2}\]d. per penny weight) on the gold recovered. This Company will have the benefit of the vendor's interest in this contract, and also of contracts entered into for the sale of the patent right for the Transval, the Dominion of Canada and Portogal, particulars of which are set out in the full prospectus, copies of which can be obtained on application at the Company's officer.

The purchase price has been fixed by the vendor at the sum of £125,000, payable as to £110,000 in fully-paid shares of £1 each, as to £5000 in cash (as consideration for the patents, and his expenditure in relation thereto, including the formation of this Company up to allotmen', and the balance of £10,000 in cash or fully-paid shares, or both, at the option of the directors.

Annication should be sent in accompanied by a deposit of 2*c. 61, per share.

Application should be sent in accompanied by a deposit of 2-. 61, per share.

Copies of the agreements and reports and of the Memorandum and Articles of Association of the Company can be inspected at the offices of the sol citors.

Dated 30th August, 1895.

THE REPORT ON PUBLIC COMPANIES, (Continued from Page 1926).

In dealing with the Memorandum of Association the Committee of the company and the extraction of the company with the memorandum of Association the Committee of the company and the register of contract from the proposal for any alteration (which is to be company) and the register of the statement and the company and the register of the company was not been than 18. Third and the anomalous of the presentation of the contract of the company and the register of the company and th against the c.l.'s. By taking debentures which constitute a floating charge on the assets for the balance of the purchasemoney he obtains priority ov r the creditors of the busine s, who, is not asset as a restrict the his arter of the busine s,

who, in such cases, are practically his own creditors.

In a recent case, to which attention was drawn in these columns, that of "Broderip v. Salomon," the Court of Appeal held that where it is proved that the formation of the company was a more device to defraud creditors the law will go behind the legal machinery of the Acts, and make the persons who are the beneficial owners of the business liable to indemnify the company against its debts. This judgmen' the Committee has appended to its report, and have recommended in their draft company against its deces.

appended to its report, and have recommended in their draft Bill that proof that a company is formed to defeat craditors shall in future be ground for winding-up a company. They would give the Court, when winding up a company in such a case, or if it should appear that the certificate of incorporation was obtained by fraud, or that the shares had not been allotted as required by the Act, power to declare that any one or more of the members are liable for the debts of the company. In anch cases it is proposed that the Attorney-Coneral may pany. In such cases it is proposed that the Attorney-General may patition. The advantage of this is that the public may be protected in cases where it is not in the interest of any share-

such shares are often avoided, especially by those who hold shares as part of a trust estate.

The arguments and proposals as to double registration are reviewed and discussed. Inasmuch as such a scheme is I kely to entail complication, delay, and expense in the formation of companies, and calculated to interfere with the facility for bringing enterprises for the investment of capital to this country, the Committee think, on the whole, that it would lead to blackmailing. To leave shareholders at their first meeting to determine whether they should drop or go on with a business or to settle the terms of a provisional contract wou'd be so unfair that an honest vendor of a business or promoter of a new enterprise might well fear to take the risk of having his project "b'owa upon," and so returned to his hands depreciated in its commercial value. Instead of a suggestion of such a charact r, it is proposed that the hitherto useless first meeting, now held within four months of formation, should be hald within one month, and should become of real use; the subser ber should then have the opportunity of enquiry into the facts and of with having from om-tracts if there are legal grounds for rescission. For this pur-pose it is proposed, in order to give this mesting vitality and

EDINBURGH.

Messrs. Thomas Miller and Sons, Stock and Share Brokers, 69, Hanover-street, Edinburgh, report as follows under date of August 29:
—A large amount of business has been done during the past week, but owing to the small supply debenture, guaranteed, and preference stocks have not participared in the general activity. In Scottish railways Caledonian Deferred has advanced from 519-16 to 52\$, North British from 45\$ to 46\$. Glasgow and South-Western, Great North British from 45\$ to 46\$. Glasgow and South-Western, Great North British from 45\$ to 46\$. Glasgow and South-Western, Great North Scottish, Law Life from 11\$ to 11\$, Life Association from 42 to 42\$. Standard Life from 51\$ to 65\$, Commercial Bank shares have improved from 70 to 70\$. Bank of Sootland have declined from 344 to 343, National from 340 to 339\$. British South Africa shares have improved from 66*, to 75*. Colland iron shares firm. Steels have advanced from 66*, to 76*. Colwan item Standard Coal firm. Steels have advanced from 66°, to 76°, Cowdenbeath Coal 10°, up at 17. Marbellas from 50s, to 54°, 6°, John Wat-ons from 11\$ to 12 1-16, Aris nas up from 61s, to 63°, 9°l. Pamoberston bave advanced from 10 to 10\$. Youngs declined from 53*, to 52*, 91. Distillers 1*, 33. higher at 18 5 16. New Zealand and Anstralian Land 60*. higher at 91. John Barry Outere 1*, 31. higher at 95\$. A considerable business has also found from 15*. higher at 95\$. A considerable business has also found from 15*.

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nents, paid harges clude SUBSORIPTION LIST will OPEN on MONDAY, the 2nd September, and CLOSE for TOWN at 4 p.m. on WEDNESDAY, the 4th of September, 189, and the following morning for the COUNTRY.

Mr. ROBERT WILLIAMS, in his Report to the Zambesia Exploring Company amited), of the 1st of December, 1874, states that Mr. Hammond, in speaking the Dickens Rest, says:—

"That as we had orushed 1000 tons of ore from the Mine and produced 18 dwts. per ton, he considered our test graphing was much more reliable than any sampling he could make of the Mine, and that ail he wished to satisfy himself about was as to whether the Rest was or was not primanent."

As to this Mr. Hammond further states:—"I found the rest at the Dickens to be a true fissure reef; such being the case I think there is no question as to the persistency or permanency of the reef in depth." See page 23, Director's Esport of the British South Africa Company, Second Edition, 18th January, 1895.

THE LIVINGSTONE AFRICAN EXPLORA TION COMPANY, LIMITED.

SHARE CAPITAL

SHARE CAPITAL ... ,... £250,000,

DIVIDED INTO 250,000 SHARES OF £1 EAOH.

Of which the Vendors take 66,666 Shares in part payment of the Purchase money.

[183,334 Shares are Now Offered for Subscription.

(Of Which £100,000 Will be Available for the Provision of Working Capital),

Payable 2s. 6d. on Application; 2s. 6d, on Allotment; 5s. on the 2nd November; 5s. on the 2nd January, 1896; 5s. on the 2nd March, 1896.

LEWIS PETER FORD, Esq., Shortlands House, Shortlands, Kent (Chairman), formerly acting as Her Majesty's Attorney General, Transvaal.

H. SETON-KARR, Esq., M.P., J.P., 12, Lower Sioane Street, London, S.W. (Chairman Emperor Gold Mines, Limited).

ARTHUR H. HALLER, Esq., Shipowner, 61, Mark Lane, London, E.C., and Hall.

Hell.

JOSEPH WILLIAM GREIG, Esq., 51, Broadhurst Gardens, London, N.W.
(Director Morth Metropolitan Tramways Company, London).

MAX SCHOEPS, Esq. (from Tete on the Zumbesi), 72, Bishopsgate Street
Within, E.C., Managing Director in Bouth Africa.

BANKERS,

Messrs, BROWN, JANSON & CO., 32, Abeburch Lane, E.C.

Messrs. ASHURST, MORRIS, CRISP & CO., 17, Throgmorton Avenue, E C.

BROKERS. READ & BRIGSTOCK, 5, Austin Friars, and Stock Exchange, London. Messrs. PATERSON, NEWLANDS & CO., 28, Renfield Street, and Stock Exchange, Glasgow.

Meers, BEWICK, MOREING and CO., Broad Street House, E.C., and Sallsbury, South Africa.

Mesers, CHAS. J. ALFORD & CO., Salisbury, Mashonaland; Umtali, Manicaland.

Mesers. MONKHOUSE, GODDARD and CO., 28 and 29, St. Swithin's
Lane, E.C.

JAMES MONORIEFF WILSON, Esq., 15 and 15, George Street, St. Swithin's Lane, E.C.

PROSPECTUS.

PROSPECTUS.

This Company has been formed to acquire:—
First.—A valuable contract or concession for locating, working, and developing 2000 gold mining claims (equal to about 3000 acres), granted by the British South Africa Company to the North Charterland Exploration Company (Limited). This concession gives the right to locate the above Mining Claims anywhere within the grant of 10,00 square miles held by the North Charterland Exploration Company (Limited). This grant is situated between the British Protectorate of Nyassaland on the East, and the River Loangwa on the West, and bounded on the South by a portion of the Anglo-Portuguese frontier, and on the North by the British Bouth Africa Company thas undertaken direct administration is virtue of an agreement entered into between Her Majesty's Government and the British South Africa Company on the 34th November, 1894.

Secondly,—A land grant from the said North Charterland Exploration Com-

between Her Majesty's Government and the British South Africa Company on the 24th November, 1834.

Secondly,—A land grant from the said North Charterland Exploration Company (Limited) of 250 square miles, or 150,000 acres, to be located (with the approval of that company) within the same area.

Thirdly,—A block of ten mining claims on the eastern extension of the well known Dickens Reef, situated about 11 miles from Victoria, Mashonaland, upon which some development work has been done. These claims adjoin those of the Zambesia Exploring Company (Limited), which were most favourably reported on by Mr. Hays Hammond and Mr. Robert Williame, of London, Johannesburg, and Buluwayo, and quoted in the last Annual Report of the British Bouth Africa Company (see page 13 of first edition, and sise pages 50 and 63 second edition). Particular attention is drawn to the extract from Mr. Williams' report on the Dickens Reef, at the head of this prospectus.

The African Pioneer Company, the Vendors of the Dickens Reef claims, inform the Directors that a shaft has been sunk to comply with the regulations of the Chartered Company; that the reef is on the main road, and only two days' journey by or wagon from the railway terminus at Ohimole; that machinery can be easily conveyed to the Chartered Form the reef were assayed by Mr. Claudet, Assayer to the Bank of England, and gave the Following results:—

SILVER. Ozs. dwts. grs. GOLD.

GOLD.

GOLD.

GOLD.

Oss, dwts, grs.

Os

rerais:—

"Gold is known to be present in the mountainous region along our south-west border, and also in Jumbes Country of Marimba, on the South-West Coast of Lake Nyasa; it is said to be also present in the Loangwa

Valley."
Mr. JOHN HAYS HAMMOND, in his report to the Directors of the British uth A'rion Company, dated November 5th, 1894, says, speaking of the Gold

"Included in these mining belts are numerous anoient workings. At the dats of my examinations, August-September, 1994, about 1990 miles of quartz reefs have been pegged out, of which it is estimated 350 miles extually cover ancient working. That an enormous amount of gold has been obtained from these workings in the past is, however, unquestionable; Millors of Pounds Sterling worth of gold has undoubtedly been derived from these sources."

can these source."
"To summarise I would say that I consider the prospects of the country nooursging, the veins being undoubtedly true fissure veins, and the sineralisation being, as attested by the ancient workings, very extensive, here are, I think, substantial grounds to predict the opening up thoose of ore, from which an important mining industry will ultimately at a level.

shoots of ore, from which an importance and the develop the Floneer Block on the bedercloped."

In the Second place it is intended to develop the Floneer Block on the Dickers Reef, and for that purpose to forward the necessary Machinery and Mining Staff.

And Thirdly, the cale of other portions of the Company's claims and inaumerable Land Grants and Business concessions to Sub-Companies will, the Directors believe, secure handsome profits.

As an evidence of the success of South African Companies, the following my be named as showing the value of shares in such Companies:—

8. d.

The London and South African Exploration Company (Limited), 10s. paid, present value about ...

South African Gold Trust (Limited) £1 shares, present value about ...

The Rhodesia Exploring Company £1 shares are quoted at about ... 13 10 0

The Ehodesia Exploring Company £1 shares are quoted at about 17 15 0

Zambesia Exploring Company £1 shares are quoted at about 5 0 0

Rhodesia Concession (Limited) 17 17 15 0

The Livingstone Syndicate, Limited, who are the promoters of the Company, have fixed the price to be poid for the properties acquired by the Company at £159, '02, payable as to £20,000 in cash, £6,688 in fully paid shares, and the factories, thus leaving £100,000 of the onitial available for the provision of working capital, and they will out of the purchase money provide the cash and shares for the North Charterland Exploration Company, and the African Pioneer Company.

The following contrasts have been entered into:—(1) A contract dated 5th July, 1895, between the North Charterland Exploration Company, Limited, and the Livingstone Syndicate, Limited; (2) a contract dated 18 July, 1895, between the African Pioneer Company, Limited, and the Livingstone Syndicate, Limited; (3) a contract dated 18th July, 1895, between the Livingstone

Syndicats, Limited, of the one part, and Thomas Williams as Trustee for this Company of the other part, being the contract for sale to this Company, and a contract between Mr. Max Shoeps and this Company. Other contracts and arrangements have been entered into by the Livingstone Syndicate, Limited, in relation to this formation of this Company, and the underwriting of a portion of its Capital. The Company is not a party to any of such contracts or arrangements, but in order to avoid any question being raised as to such contracts or arrangements falling within the provisions of Section 35 of the Companies Act, 1867, applications for shares will only be accepted upon the basis that applicants have agreed with the Company as Trustees for the Directors, and other persons interested, to waive the insertion in this Prospectus of the dates of, and the names of parties to, such contracts and sprangements, or any further compliance with the same section than above set forth. The above-mentioned contrasts, and the Memorandum and Articles of Association, can be inspected by applicants for shares at the offices of the Solicitors of the Company.

pany. oplication will be made in due course for a quotation on the London Bto

Company.
Application will be made in due course for a quotation on the London Brock Exchange.
Applications for shares should be made on the accompanying form, and forwarded to the Company's Bankers, together with the amount payable on application. Where no allotment is made, the sum so deposited will be returned in full, and if the number of shares allotted be less than that applied for, the surplus will be credited in reduction of the payment on allotment, and any balance will be returned.

Prospectuses and Forms of Application may be obtained from the Bankers and Boliciters, and at the Offices of the Company.

COMPANY FINANCE.

Reports, Balance Sheets, Dividends, &c., of Mining and other Companies.

Bushman's Gold Mines of Western Australia

(Limited). (Limited).

The following circu'ar has been sent to the shareholders:—
The following is a copy of the report by Mr. W. H. Matthews, manager of Bayley's Reward Claim Gold Mining Company, Coolgardie, Western Australia, upon three of the leases owned by the company:—"I have carefully inspected gold mining leases Nos. 703, 1332, and 728, known as the Bushman, Lulwarth, and Birthday, comprising a total area of 48 acres, situated at the south-west end of the 90 Mile Salt lake, West Australia.

General features. The general features of the proparty are of the south-west end of the 90 Mile Salt lake, West Australia.
—General features. The general features of the property are of an auriferous character, the surface in the low-lying ground is covered with quartz rubble, intermixed with ironstone, which has disintegrated from the lode outcrops, this being the chief gold bearing matrix throughout the colony.—Lode outcrops; Owing to the depth of alluvial on the greater portion of the property, it is impossible at this stage to determine the number of lodes that will eventually be discovered. From the work already done these appear to be numerous, and many of them can at the lodes that will eventually be discovered. From the work already done these appear to be numerous, and many of them can at the present time be traced through the full length of the property, and doubtless there will be many others exposed as the property is developed.—Work: The work done comprises shafts, cross trenches, and trial pits sunk to various depths, and in almost every instance exposing lode matter containing gold more or less of a promising nature. — Block No. 726: This is the most southern block, and has been prospected by one shaft and a number of cross trenches.—No. shatts, cross trenches, and trial pits sunk to various depths, and in almost every instance exposing lode matter containing gold more or less of a promising nature. — Block No. 726: This is the most southern block, and has been prospected by one shaft and a number of cross trenches.—No. 1 shaft: No. 1 shaft has been sunk to a depth of 45 feet. At the 25 feet level (tovel drives have been driven along the course of the lode east and west for a distance of 50 feet in each direction; the lode formation averages 4 feet wide, with 3 feet of solid stone, composed of quartz impregnated with iron of a very favourable character. At the bottom of the 45 feet level (which is the water-line) the lode is much stronger, being 5 feet wide; the walls are better defined, giving every indication of continuing and improving in depth. I carefully examined the stone raised in the dumps from the sinking and driving; in all about 100 tons. Gold could be freely so m. From this 1 took a large bulk sample, which gave a yield equal to alightly over 2 ounces 12 dwts. of gold per ton. This I regard as very satisfactory indeed.—Main reef, No. 2 lode: About 100 yards south of No. 1 shaft a trial pit has been opened on what is known as the No. 2 lode, bearing morth and south. At the present depth of 5 feet the lode is fully 4 feet wide. A bulk sample from this gave equal to 15 ounces 13 dwts. per ton.—No. 3 lode: Still further south a third opening has disclosed lode matter 18 inches wide, composed of quartz and ironstone. A bulk sample from this gave a roturn equal to a little over 4 ounces 11 dwts, of gold per ton.—No. 1 shaft: At the north point of the outcrop a shaft has been sunk 18 feet to the water level. The lode formation is 6 feet wide, and the stone apparently makes a rapid dip north, the shaft passing through the lode about 10 feet from the surface. Bulk sample staken from the stone raised and on the ore dump yielded equal to 2 ounces 13 dwts. per ton.—No. 2 shaft: No. 2 shaft is sunk 100 yards south of No. 1 to the depth of 34 fe exposing lode material the full distance, averaging about 4 feet in width, and composed chiefly of quartz with thin bands of friable intrusive rock. Probably this lode will average 3 feet of solid rock. From this a bulk sample was taken at 10 different places along the whole length of the openings, which yielded a very satisfactory return, equal to 3 ounces 5 dwts. of gold per ton.—General: In my inspection of this property I have much pleasure in stating that from the present developments and from samples taken from various parts of the property (each giving good results) I consider it a good, sound, legitimate mining investment. The lodes and the veins throughout the property are apparently numerous, and all more or less gold-bearing, many of them, from the samples tried, being very good indeed. This, with the assurance of an abundant water supply, should, when the mine is properly developed and the necessary machinery procured, make it one of the most valuable mines in machinery procured, make it one of the most valuable mines in

the discret.

— The directors of the London and Johannesburg Syndicate (Limited) have declared an interim dividend of 2s. per shere (being at the rate of 120 per cent. per annum) for the month ending August 31, payable on the 15th proximo.

Bendigo Consols (Limited).

Bendigo Consols (Limited).

We note the registration of the Bendigo Consols (Limited), with a capital of £120,000, in shares of 10s. each, to acquire and develop the well-known Tarnagulla Gold Mine leases, comprising an area of 95 acres, situated about 25 miles from Bendigo, the colony of Victoria, Australia. The property is held under lease from the Grown, and contains the renowned Poverty reef from a comparatively small portion of which, it is stated, gold to the amount of £1,340,000 was obtained by the late owners. This reef varies in breadth from 8 feet on the surface to 23½ feet at a depth of 320 feet, the average yield of gold being from 5 to 7 ounces per ton. The mine has intact the greater part of the machinery, and it is estimated that an expenditure of £3000 will put it in a thoroughly payable condition. The facilities for working are first-class, wood and water being in pleutiful supply. We understand that satisfactory arrangements are being made for a working capital of £10,000,

Western Australian Bank.

The report of the Western Australian Bank for the half-year ending June 30, states that the net profit, after providing for bad and doubtful debts, for rebate on discounted bills current, for interest on deposits, and for all expenses of management, came to £9974, to which have to be added £340, and the balance brought to £9974,to which have to be added £340, and the balance brought forward, £29,901, making a total of £33,215. From this the directors have resolved to pay a dividend of 17s. 6d, per share, equivalent to 17½ per cent. per annum, and absorbing £7000, leaving £26,215 to go forward. The reserve fund now stands at £100,000, and the reserved profits amount to £26,215. A branch has been opened at Menzies, and arrangements have been made to open another at Esperance. The name of the branch at White Feather has been altered to Kanowna, in accordance with postal regulations. The old bank premises in St. George's-terrace being no longer required for banking pure St. George's-terrace being no longer required for banking purposes, have been sold at a satisfactory price. New premises are being erected at Bunbury and Northam, and steps are being taken to erect premises at York and Cue, where additional accomodation is urgently needed.

Waldon's Find Gold Mines (Limited).

The favourable estimate which was formed of this enterprise on its introduction to the market some little time ago has been further enhanced by the discovery of a third existing reef, assaying 5 ounces to the top, running parallel to the two other highly auriferous lodes already known to permeate this property.

The shares have accordingly been in active demand during the week, and as development progresses the mine is expected to open up more favourably. The 10s. shares are now quoted from 63. 6d. to 7s. 6d.

George Goch Amalgamated Gold Mining Company,

George Goch Amalgamated Gold Mining Company.

A special general meeting of shareholders will be held at Johannesburg, on Tuesday, October 1, 1895, to consider, and if deemed advisable, to pass a special resolution authorising an increase of the capital by the issue of 190,000 shares, for the purpose of acquiring the property and assets of the Metropolitan Gold Mining Company (Limited) on the following terms:

—132,000 shares to be issued to the shareholders in the Metropolitan Gold Mining Company (Limited), 33,000 shares to be taken up, at 60s. each, by Messrs. Albu and Goerz, 25,000 reserve shares, total 190,000. Proxy forms may be had on application from the London agents, and when signed should be returned to them, at latest by Friday, September 6.

North Queensland Mines Agency.

The issue of 25,000 new ordinary shares at a premium of £1 per share have been offered to the shareholders of the company, and, having been over-applied for, letters of allotment and regret have been sent out.

— The New Heriot Gold Mining Company (Limited) have declared a dividend of 15 per cent., payable to all shareholders

registered August 30.

— The offices of the New Bultponthin Mining Company

— The offices of the New Bullifornian Mining Comean (Limited) have been removed to 6, Drapers'-gardens, E.C.
— According to a cablegram received from the head office of the New Clewen Estate and Gold Company it was resolved at the extraordinary general meeting of shareholders, held at Johannesburg, that the offer for the amalgamation of this company with the Lydenburg Mining Estates (Limited) be accepted.

pany with the Lydenburg Mining Estates (Limited) be accepted. According to the torms of the agreement the New Clewer Estate and Gold Mining Company (Limited), in exchange for all its property and assets, will receive 50,000 shares in the capital of the Lydenberg Mining Estates (Limited).

— Holders of share warrants to bearer in the Ferreita Gold Mining Company (Limited) are informed that they will receive payment of the dividend No. 9 (13s. per share) on presentation of coupon No. 2, either at the London office of the company, 120, Bishopsgate-street Within, E.C., or at the Croint Lyonnais, Paris. Coupons must be left four clear days for exmination at either of the offices mentioned above, and may be presented any day between the hours of 11 and 2 (Saturdays excepted). days excepted).

days excepted).

At a meeting of the directors of the Hauraki Gold Mining Company, held yesterday, it was resolved:—"That a dividend of 1s. per share free of income tax be, and it is hereby, declared payable to all shareholders on the register on the & day of September next. That the books of the company be closed from the 7th to the 14th day of September, both days inclusive."

The directors of the REAL ESTATE CORPOBATION OF SOUTH AFRICA (LIMITED) announce a second interim dividend of 2 per

Africa (Limited) announce a second interim dividend of 2 per cent., less income tax, on account of the current year, payable on and after September 9 next.

— The prospectus of the Consort Deep Level Gold Mins (Limited) will be issued early in September by the Mines Acquisition and Development Company (Limited), who are the vendors. The property is adjacent to that of the Consort Consolidated Company. A considerable sum of money has been spent on development, and it is stated that three reefs travers the property—the Consort Main, the South reef, and the Pripes Consort reef.

- The secretary of the ISLE OF MAN MINING COMPANT (LIMITED) informs us that he has sold 100 tons of the company's

ore at £8 5s. 6d. per ton. - An official notice in connection with the BRILLIANT — An official notice in connection with the BRILIIANT
CENTRAL GOLD MINING COMPANY (LIMITED) states that a call of
3d. per share has been made, payable in Charters Towers on
October 5, and unless the payment be made on or before
October 31, the shares will be forfeited.

— The directors of the STANDARD BANK OF SOUTH AFRICA
have declared a dividend of 10 per cent. per annum and a boms
of 6 per cent. per annum. This amount has only been exceeded

once, viz. :- For the second half of 1881, when the dividend was 18 per cent.

ANOTHER MAP OF WESTRALIA. - Another new map of the West Australian gold fields (including Coolgardie, East Coolgardie, Iligarn, Dundas, Murchison, and Yaigoo districts), by Mr. Walts Bowness Benns, is now, we are informed, in the press. The may has been compiled from the latest authentic information direct [52] the Lands and Survey Department at Perth, and with the assistance of the Hon. Sir Malcolm Fraser. The size will be 120 inches of 40 inches,

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NEW ISSUES.

THE MURCHISON DIAMOND AND GOLD MINES (LIMITED).

THE MURCHISON DIAMOND AND GOLD MINES (LIMITED).

The formation of this company has for its object the acquisition and working of the diamondiferous deposits in the Bingara district of Murchison county, New South Wales. In extent the property consists of two blocks of 40 acres each, both of which were granted by the Mines Department of the Colony Government to Mr. J. E. Palmer. Among those gentlemen who are said to have expressed their high opinion of the value of the property, we may mention Sir Henry Parkes, ex-Premier of New South Wales; Mr. Corbett Lawson, Warden and Police Magistrate of Bingara; and Mr. Streeter, the well-known diamond merchant of London. Captain Rogers, who has reported on the property, owns a 40 acre lease in the district, which has been more highly developed than any area in the neighbourhood, and the results of working are said to be that "without any sorting whatever the washed dirt gives an average of 6½ carats per load." It is at present proposed to use Lockhart's patent gem-separating machines for extracting the gems, and it is expected that with a very moderate outlay, a plant sufficient to deal satisfactorily with 100 loads per day, will be at work some few weeks after the machinery arrives on the mine. Mr. Mercer, who is among those who have reported on the blocks, states "that seven loads taken from the surface that I washed, gave nine diamonds and 2½ dwts. of gold." Further on he says "the wash being of identically the nature as that in the famous Monte Christo Mine, there is no reason why it should not be equally as rich." Mr. Henry Glenny believes "that the mine is highly diamondiferous," and Mr. W. H. Jordan, C.E. certifies that the blocks are situated "in the middle of the diamond-bearing district of New South Wales." Among the other stones which are reported to be found in the washed dirt we may mention jaspers, quartz agate, sandstone discoloured by oxides, manganite, trimanite, conglomerate, quantities of small gems, rubies, garnets, sapphires, sircons, tourmaline, and t

THE MALLINA PROPRIETARY (LIMITED).

This company's property consists of two leases of 12 acras each, situated in the Pilbarra gold fields, near the lease ot the Mallina Consols, whose title is familiar to the mind of mining circles in connection with some very successful and even brilliant crushings. One of the new company's claims is situated quite close to the 12 acre lease owned by the Mallina Consols (Limited), which is yielding stone giving as high as 70 ounces to the ton. The property, in fact, is situated among several of the highly successful gold fields, and should it yield resu'ts at all comparable with those of its neighbours, the shareholders will have every reason to be satisfied with their investments. The increased facilities for working which cannot fail to follow upon the have every reason to be satisfied with their investments. The increased facilities for working which cannot fail to follow upon the Governmental provision of the port Bala Bala, and improved mail and telegraph services may be expected shortly to affect very advantageously all of the workings on the field. It may be mentioned that the capital of the company is £500,000, divided into shares of 5s. each, of which 80,000 shares are reserved for working capital. Mr. H. B. Taylor's report is worth quotation. He says:—"King Solomon Lease: Quartz leaders run through the entire length. Have put down another shaft, and have hit on four large leaders, the prospects from which are very good. Mr. Kerr is confident there is an enormous reef from which these leaders spring, and that it is a splendid claim. It improves every day, and is undoubtedly a first-class mine. Very good stone has been obtained, giving 2 ounces per ton.—Elena Lease: This reef adjoins the flat reef, from which 70 ounce stone has been taken. A shaft is down 25 feet, and the reef has been struck. It is 6 feet wide, carrying rough and fine gold, giving 4 ounces to the ton."

FAUVEL GOLD RECOVERY COMPANY (LIMITED).

FAUVEL GOLD RECOVERY (COMPANY (LIMITED).

This company has been formed with a capital of £150,000 in £1 shares, of which £30,000 are now offered for public subscription, for the purpose of "acquiring the British, foreign and colonial patent or other rights in valuable metallurgical into the purpose of "acquiring the British, foreign and colonial patent or other rights in valuable metallurgical and inventions, and to provide all necessary reports and models, and all incidental expenses in connection with the same, and to work, license, or sell to individuals, syndicators, or companies the rights are acquired. The first process proposed to be sequired is that known as *Farvilla* Gold Recovery Process, for the treatment of refractory gold bearing ores, for the process and regard to the colonial, and other gold-producing countries in the world. We wanted Lock say of the Fauvel process:—"A careful study will I think convince metallurgists that the scientific principles involved are thoroughly sound, and that the furnace provides in a practical manner for all reasonable conditions, and sable to accomplish the object for which it was designed." The beasits to be derived by the new company from the process repithly summarized in the prospectus as follows:—"(1st) From the sale of plant and licences to work the process. (3rd) From the formation of some plant capable of the formation of some plant capable of the process on its own sollows:—"It is assumed that the visit of the world. The basis of the calculation is given as follows:—"It is assumed that the visit of some in a value of the process and greater economy in saving the miner from the costs of the eyalic in several paper and provided the process are quite an analysis of the calculation is given as a sollows:—"It is assumed that they will probably require a plant c

WOODSTOCK (TRANSVAAL) GOLD MINE

Prospectuses of this company will be issued on Monday, and in the meantime a few particulars of the seat of its proposed operations may not be without interest to our readers. At the feet of the gold hill, where the mine is situated, there is said to be a male as a season of the se be ample means of communication by road, river, and rail, for the carriage of the ores, while there is a full sufficiency of water

to supply the requisite motive power for the stamps. Ore of a grade no higher than the average of the Witwatersrand should, it is thought, here pay handsomely; but, judging from the reports, something very much higher than the average Rand yield may be confidently expected. The gold, it appears, is non-pyritous, and hence no chemical plant will be needed unless it should be found that the direct cyanide process can be applied with an increase in economy. The reef is spoken of as of great width—that is as compared with gold reefs in general, and those of the Witwatersrand in particular. The probable width of the reef is said to be 40 feet. According to a statement which has been made, in the Sheba Mine, which is comparatively near Woodstock, they are working a 90 feet reef; so that the belief in the existence of a 40 feet reef in the property we have now under consideration has at least this precedent to guard it from being thought to be unduly exaggerated. It is said "that the steatitic formation giving rich prospects of rough nuggetgold was found to be 15 feet wide." The exploratory work and development which has hitherto been carried out in the property appear to be of a satisfactory character, and have led the promoters to state that "taking the mine as a whole, the Woodstock should rank very high in comparison with other Transvall Mines."

THE LIVINGSTONE AFRICAN EXPLORATION COMPANY (LIMITED).

This company has been formed with a capital of £250,000, in £1 shares, of which 183,334 are offered for subscription (£100,000 of which will be reserved as working capital) for the purpose of acquiring a valuable contract or concession for locating, working and developing 2000 gold mining claims (equal to some 3000 acres) granted by the British South Africa Company to the North Charterland Exploration Company. This concession, as the prospectus states, gives the right to locate the above mining claims anywhere within the grant of 10,000 square miles held by the North Charterland Exploration Company. Secondly.—A land grant from the said North Charterland Exploration Company (Limited) of 250 square miles, or 160,000 acres, to be located (with the approval of that company) within the same area. Thirdly.—A block of 10 mining claims on the eastern extension of the well-known Dickens reef, situated about 11 miles from Victoria, Mashonaland, upon which some development work has been done. These claims adjoin those of the Zambesia Exploring Company (Limited), which were most favourably reported on by Mr. Hays Hammond and Mr. Robert Williams, of London, Johannesburg, and Buluwayo, and quoted in the last Annual Report of the British South Africa Company. Particular attention is drawn to the extract from Mr. Williams' report on the Dickens' Reef, at the head of the prospectus. The dompany will also have a further right to peg out an additional 50 mining claims within the sphere of the operations of the Chartered Company. The directors intend to select gold mining claims, and lands for settlements and towns. Summarising his report to the British South Africa Company, Mr. John Hays Hammond says:—"I would say that I consider the prospects of the country encouraging, the veins being undoubtedly true fissure veins, and the mineralisation being, as attested by the ancient workings, very extensive, there are, I think substantial grounds to predict the opening up of shoots of ore, from which an important mining industry will ulti

LOMATIE (LYDENBURG) EXPLORATION COMPANY (LIMITED).

COMPANY (LIMITED).

This company has been formed with a capital of £150,000 in 150,000 shares of £1 each, of which £50,000 are now offered for public subscription, in order to provide working capital for the purpose of acquiring, exploring, and further developing a block of land, containing an area of 74,893 English acress, adjoining the proclaimed De Kaap gold fields in the Lydenburg district of the Transvaal. The directors state that from information in their possession they are satisfied (1) that gold-bearing reefs have been discovered and development work has already been done by trenches, shafts and crosscuts, there is sufficient water-power in the Lomatic river, which runs through the property all the year round, for stampmills of large capacity." With respect more especially to the operations intended to be pursued in the future, the directors state:—"These advantages, combined with cheap labour and proximity to the railway, should enable the company to work one, even of a low grade, profitably. The area of the estate, being about 115 square miles, will permit of the re-sale of portions, from time to time as opportunity occurs, without interfering with the operations of the company. Vigorous prospecting operations will be at once commenced."

J. SELL, on the Premiser, on THURSDAY and FRIDAY, September 5th and 6th, 1895, commencing each day at Twelve o'clock (sharp at not, he helimbush, Kelly Bray, and Redmoor Mines, in the Valuable Machinery and Effects, or a clock (sharp at non), the whole of the Valuable Machinery and Effects, or a visuable of the Holmbush, Kelly Bray, and Redmoor Mines, in the Valuable Machinery and Effects, or a clock (sharp at non), the whole of the Valuable Machinery and Effects, or a clock (sharp at non), the whole of the Valuable Machinery and Effects, or a clock (sharp at non), the whole of the Valuable Machinery and Effects, or a clock (sharp at non), the whole of the Valuable Machinery and Effects, or a clock (sharp at non), the whole of the Valuable Machinery and Effects, or

It was current gossip in the Lobby last (Tuesday) night that Baron Henry de Worms would be appointed Governor of Western Australia, in succession to Sir W. Robinson, whose resignation was yesterday announced. The reasons for that resignation are not hard to guess. Sir William Robinson, perhaps, thinks that directorships in the City are better than Governorships in Australia. When he was over here on a holiday a few months ago, he eulogised West Australia as a gold field whose richness and magnificence were beyond any doubt that might have been suggested by the disappearance of the "pocket" in the Londonderry Mine. Coming from the Governor of the colony these rosy views were a cause of great joy to a good many people in the City.—St, James's Gazette.

Cornwall Minerals Railway.—The half-yearly general meeting of the Cornwall Minerals Railway Company was held on Thursday at 17, Victoria-street, Mr. George Chamberlain presiding.—The report stated that the gross receipts for the half-year were £21,187, being a decrease of £405, and as there was an increase of rather more than 1½ per cent. in the working expenses charged by the Great Western Company, the not receipts amounted to £3092, being a decrease of £259 compared wito the previous corresponding period.—The Chairman, in moving the adoption of the report, spoke of the expenditure undertaken to provide additional shipping facilities at Fowey. The Lostwithiel and Fowey line was now completed, and it was to be officially inspected on Friday. He hoped it would be opened on September 2,—The motion was agreed to.

JAVALI.—The manager writes on June 25, as follows:—We restarted work the latter part of last month. During those few days 44 tons of ore were broken from stope No. 2 (western workings). Although the quartz is somewhat harder for extracting, yet the quality is a decided improvement on that from the old stops.—Sur Pedro. Works produced 27 tons of rock. So soon as we have struck pay ground in the crosscut below I shall take the men from this point to start a rise to prepare for stoping. At present the end of the crosscut is in very hard ground and his progress is slow, even with the aid of dynamite.—Dolores. The output from here was 30 tons of ore. I am keeping on this work with a view of getting under the old Nisporo workings on the south side, where I can, without danger to our main level, riffel any of the pillars and runs left by former workers.—Mill output. The mill, working an average of eight stamps, ran 13 days, crushing 225 tons of soft ore, which produced 72 ounces of gold. The yield from two arrastras was 8 ounces, and from 70 tons of tailings treated in April last 3½ ounces. Total, 83½ ounces of gold, the average value per ton being 7 dwts. 2 grains. The remittance is valued at £167; the cost fo

LIMERICK.— Advices to hand on 27th inst.say: Mine looking exceedingly well. Pumps have been purchased in Adelaide, and crushing plant is at Fremantle; both will be at work very shortly. We have over 1500 tons on surface ready for treatment, averaging wherever tested over 3 onness per ton. Leases have been transferred and we are working full-handed. Developments opening up splendidly.

FEDERATED INSTITUTION OF MINING ENGINEERS. - We have re-FEDERATED INSTITUTION OF MINING ENGINEERS.—We have received particulars of the elaborate arrangements which have been made to suit the convenience of gentlemen travelling to Stoke-upon-Trent to be present at the meetings of the Federated Institution of Mining Engineers, to be held on September 18 and 19. Special trains at special fares will be run from several of the chief towns of England by the Midland Rulway Company, and the scale upon which the preparations have been made clearly shows that the gathering is expected to be a large one. From the agenda paper, it appears that the proceedings will be of more than usual interest.

ASHBOURNE GOLD MINE (LANGER)—Letters of allotment of

ASHBOURNE GOLD MINE (LIMITED).—Letters of allotment of shares have been posted.

SALE BY AUCTION.

.*. Advertisements are inserted in this column at the rate o 8d. per line with a minimum charge of 4s.

THE CALLINGTON UNITED MINES. VERY VALUABLE MINE MACHINERY AND MATERIALS IN GREAT VARIETY FOR SALE,

G. SPEAR AND SON are favoured with instructions to SELL, on the Premises, on THURSDAY and FRIDAY, September 5th and 6th, 1895, commencing each day at Twelve o'clock (sharp at noon), the whole of the

COMPANIES AND LEGAL ANNOUNCEMENTS.

. Advortisements are inserted in this column at the rate of Od. per line with a minimum charge of 7s. 6d.

THE MALMANI GOLD SYNDICATE (LIMITED).

COMPANIES ACTS, 1862, SECTION 51.

Thaving been resolved that the CAPITAL of the above COM-PANY be INCREASED from £12,500 to £25,000 by the issue of 100,000 NEW SHARES of 2s. 61. each, amounting together to £12,500, to be issued on such terms and conditions, at such time or times, and in such amounts as the Company's Directors may deter-

That the Directors, in accordance with the above Resolution, offer to the Shareholders the privilege of subscribing, at the price of 5s. per share for one new share of the new issue, for every three original shares held by them, whether registered shares or Share Warrants to bearer.

Warrants to bearer.

On and after the 5th day of September, holders of Share Warrants to bearer can obtain Forms of Application from the offices of the Company, or from the Credit Lyonnais, 19, Boulevard des Italiens (Hall du Fond, Guichet F.), Paris, and must remit to the registered Offices of the Company the sum of 5s. per share for each now share to which they are entitled.

They must also deliver up Coupon No. 1 of their Share Warrants to the Credit Lyonnais, against the receipt of the Bank, or at the Offices of the Company for verification and cancellation.

Share Certificates, when ready, will be delivered by the Credit Lyonnais in Paris, or by the Secretary of the Company in London, in exchange for the receipt given for the Coupons.

Applications will be received up to and including Tuesday, 17th September, on which day the list will finally close.

Only registered shares will be issued; if desired they can subsequently be exchanged for Share Warrants to bearer on payment of the legal stamp duties and fee,

Registered sharebolders will be communicated with by circular to their respective addresses.

to their respective addresses.

By order of the board,
H. B. GREENWOOD, Secretary.

13 and 14, Abchurch Lane, London, E.C., 29th August, 1895.

C. PASS & SON (Limited), BRISTOL,

LEAD ASHES, SULPHATE OF LEAD, LEAD SLAGS, ANTIMONIAL LEAD, COPPER MATTE, TIN ASHES, &c. and DROSS or ORES containing TIN, COPPER, LEAD, AND ANTIMONY.

HENRY WIGGIN & CO. (Limited), ICKEL AND COBALT REFINERS, MAKERS OF BEST RED LEAD FOR FLINT GLASS MANUFACTURERS,

J. A. JONES, Mining Engineer, (M.Inst.M.M., M.N.Eng.Inst.M.M.E.) GIJON (ASTURIAS), SPAIN

BIRMINGHAM.

LAMBERT'S WHARFAGE CO., PRINCE OF WALES DOCK, SWANSEA.

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N.B.-Warrants are on Accepted List of London Metal Exchange. Regular lines of steamers from America, Europe, &c. Consign goods to Lambert's Cranes, Prince of Wales Dock, Swansea

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THOMAS TONGE, DENVER, COLORADO.

CHARGES MODERATE.

CABLE : TONGE, DENVER

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EARTH WAGONS.—75 side and end tipping, 30-inch gauge, new frame, and new tops, STEEL wheels and STEEL axles, £5 each, f.o.t. Cardiff.

RAILS .- Bridge, Flange, Double Head, and Bull Head, with or

ST. REPERS .- Wood and Steel for all gauges,

I.OCOMOTIVES.—Six wheels coupled, by Manning, Wardle and Co., 12 inches by 17 inches, now at Cardiff; also six wheels coupled, by Avonside Engine Company, 14 inches by 20 inches, now near Cardiff; also six wheels coupled, by Sharp, Stewart, and Co., 17 inches by 24 inches, now near Cardiff; all recently thoroughly overhauled, and ready for instant work; cheap for cash, or three varar redemption purchase. years' redemption purchase

SILVER SLOCAN'S FAMOUS MINES,

A Group of Developed Mines on the Mother Lode FOR SALE.

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A rare opportunity of securing a fine Silver Mine at a safe conservative price.
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Two Railroads rushing for the Camp.

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J. C. BYAN, Kaslo, B.C.

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Saves Fine Gold and Floured Mercury, the GOLD KING AMALGAMATOR. Rigidly proved. Increases value MINING PROPERTIES! DIVIDENDS!! Circulars at Head Mining Offices, London; or from WILLIAMSON Bigos, (Sole Agenta outside United States); Telephone Building, San Francisco, California; and Moray Piace, Ducedin, New Zealand.

Plates being taken out of American Batteries to make way for Gold King.

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UNION LINE.



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HOPE, NATAL, and EAST AFRICAN ROYAL MAIL STEAMERS.—The UNION STEAMSHIP COMPANY'S ROYAL MAIL and INTER-MEDIATE STEAMERS will Sail as follows for SOUTH and EAST AFRICA, calling at MADEIRA,

-		and TEN	ERIFE.		
Steamer Gotb(twins			Botterdam, Aug. 27	Hamburg. Aug. It	Bouthampt Sept. 7 Sept. 14
1 Moor	99 000		_	0 1 11	
"Arab	99 981	Sept. 10	-	Bept. 14	Bept. 21
1 Mexican .	99 000				Sept. 23

† Calling at Madeira. * Via Tenerife.

r Caning at Maceria. "Via Tenerife.

ap Tickets from London and Plymouth to Southampton.

ap Tickets are issued for Passengers' Friends.

Union Line Express is despatched from Waterloo Station (Main Line
rm) every Saturday.

RETURN TICKETS ISSUED.

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B4 Rteamerre 1	London.	Southampton.
Norham Castle (via Madelra)	Bopt. 6	1 Sept. 7
Warwick Castle (via Canaries and		
86. Helena)	Bapt. 13	Bept. 14
Tantalion Castle (via Madeira)	Bopt. 20	Bept, 21
Drummond Castle (via Canaries)	Bept. 27	Bept. 28

† Also for Madagases and Mauritius.
Return tickets to al! Ports.
Free Tickets by Castle Express from Waterloo to Southampton.
Apply to Donald Currie and Co., 3, Foncharch Street,
London, E.O.

West End Agency, Thos. Cook AND Son, 13, Cookspur Street.

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An Illustrated Record of Mining, Metallurgical, Railway, Financial, Industrial, and Engineering Progress.

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Fisplayed (Trade) Advertisements of 2 inches in depth (or more), Bingle Column measure, will be inserted at the following rates:—For 52 insertions 2s. 6d, per insertion for each inch in depth; for 25 insertions 2s. per insertion for each inch in depth; Terms for special positions and contracts may be had on application.

** ADVERTISEMENTS (which should in all cases be sent direct to THE BUSINESS MANAGER can now be received for the forthcoming issue of THE MINING JOURNAL, RAILWAY AND COMMERCIAL GAZETTE, on FRIDAY, at 18, FINCH LANE, E.C., up till 6 p.m., and at 3, DOESET BUILDINGS, SALISBURY SQUARE, E.C. until 9 p.m.

Editorial and Advertisement Offices:

18, FINCH LANE, LONDON, E.C.

Telegraphic and Cablegraphic Address: "TUTWOBK, LONDON."

Codes used: "A.B.C.," Moreing's, and "Universal."

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LONDON: AUGUST 31, 1895.

WET VERSUS DRY CRUSHING OF

GOLD ORES.

INERS and metallurgists who are engaged in the extraction of gold from its ores are at present greatly concerned with the question whether it is better to crush such ores wet or dry, and in view of the large amount of public interest that this discussion is provoking, extending, indeed, even outside purely technical circles, we propose to lay before our readers a short abstract of the principles involved, so as to better enable them to follow its developments. At first sight it might be supposed that, if ore can be crushed successfully in a perfectly dry state, or just as well in a continuous stream of water, then must all intermediate stages be equally admissible. and the degree of wetness of the ore be a matter of absolute indifference. This is, however, an error, and a most pernicious one, non-avoidance of which has led to repeated failures. It cannot be too emphatically stated, or too clearly understood, that ore must, as milling practice stands to-day, be either thoroughly dry, or else be thoroughly wetted by being crushed in a stream of water. Ore in an intermediate state of damp cloggines, in which screening is an absolute impossibility, caunot be satisfactorily treated by any method at present in use.

In the very early days of ore treatment, all ore was crushed dry, and such is still the practice among all savage or semicivilised nations that concern themselves with the extraction of gold, which is about the only metal worked by such tribes, From crushing between two stones, a hand postle-and-mortar came to be used, and the next step seems to have been a rude power pestle, or elementary form of stamp. The first stamp mills of which we have any record appear to have been at work in Saxony about the end of the fifteenth century; these were dry stamping mills, and it is said that the dust produced by them was found to be so injurious to the men working about them as to cause them to be looked upon with considerable disfavour. About the year 1510 a wet stamping mill was introduced by a certain Sigismund Malthitz, who is said to have received a liberal reward from the then Duke of SAXONY for his invention. Wet stamping, thus introduced, remained the acknowledged method of ore crushing; and of course, in this connection, it must not be forgotten that in olden times, before the days of Warr, a crushing mill of any kind could only be driven by water power, and was, therefore, always erected in close proximity to a stream, whence an abundant supply of battery water was readily obtainable. In the early days of gold mining -we are, of courso, speaking of quartz mining, not of alluvialthe first reduction machinery used in the pioneer State of California was the arrastra, which was borrowed from the native Mexican miners. Very soon, however, European miners, who had seen stamp mills in their own homes, erected similar mills, and these were naturally wet crushing ones, driven by water-power, as steam-engines were not readily availon the Pacific Coast in those days. Eve: that time an improved type of stamp mill, since crushing wet, has been the universally, or all but universally, adopted machine for the crushing of gold ores. Incident ally, we may note that it was also used in the same way for the treatment of silver ores in the North-western States of America; after a while it was found that certain silver ores could not be treated by direct wet amalgamation, but had to be calcined preparatory to being treated by certain chemical processes. In their case the stamp mill accordingly reverted to its original type, and was used again as a dry crusher; it soon proved, however, not to be well adapted to this application, the great difficulty consisting in getting the ore out of the mortar-box after it was sufficiently stamped, although exhaust fans and similar contrivances were employed. Dry crushing in the stamp mill was nover really a success; not more than 1 ton per head per 24 hours could be crushed, as against 3 to 4 tons when crushing wet, and the expenses for various reasons mounted up so fast that it cost upon the average about five times as much to dry-crueh as to wet-crush an ore in the stamp mill. Silver miners accordingly resorted largely to other machines, more particularly to high speed fine crushing rolls, of which the Krom rolls are a well-known example. Meanwhile, in spite of various spasmodic attempts to introduce dry crushing of gold ores, in connection with dry amalgamators, dry concentrators, &c., none of which ever attained any degree of success or popularity, practically the whole of the gold won in reef mining was extracted by wet crushing, and probably at least 90 per cent. of it in gravitation stamp mills. Of recent years, however, a change has been coming over the

conditions of gold mining, which may well, mutatis mutandis, be compared to that which we have referred to as having taken place in silver. Modern improvements have been introduced into the practice of gold extraction that have allowed of the profitable treatment of low grade and refractory ores, and the simple process of amalgamation has been to a greater or lesser extent superseded, or at any rate largely reinforced, by complicated chemical ones. The epoch of rich free-milling surface ores has come to an end, and with it the glorious period of indifference to the loss of gold that occurred in the course of its treatment. For a long time the fact that heavy loss was taking place was known to but few mining engineers, and these, apparently, did not find it to their interest to draw public attention to the fact. Now this point has been most thoroughly studied, as witness the valuable Governmental report on the losses of gold in Victorian gold mining, an abstract of which we laid before our readers a few weeks ago. With the recognition of the loss came the endeavour to avoid it, and processes of concentration, chlorination, and cyanide extraction followed each other in bewildering succession. It was soon evident that the bulk of the loss took place in the form of slimes, particles of gold or of auriferous pyrites being liberated in a state of such extreme division that their weight no longer sufficed to overcome the cohesive power of the water current in which they were suspended, and in which they were accordingly unable to sink. These rich particles were, therefore, necessarily carried away by the stream of water in wet crushing, and constituted a very heavy source of loss. It is obviously impossible to prevent the formation of these slimes; their existence is often looked upon as evidence of imperfection in the crushing machinery, but this view is evidently not correct in the majority of cases. If the precious metal exists, as it does in a vast number of ores, in particles of microscopic size, it is certain that these can only be liberated and dissolved by the mercury used to amalgamate them, when the ore is crushed to a corresponding degree of fineness. Hence the formation of slimes is in these very numerous cases necessitated by the nature of the ore itself instead of being due to a defect in the machine.

There is, however, an obvious way in which the loss of float gold in slimes may be prevented; produce float gold as much as you like, but do not carry it off in your stream of water. In other words crush the ore dry. This is is the train of reasoning that has brought us back once again to the serious consideration of dry crushing in gold extraction. The possibility of adopting this method of working is primarily due to the cyanide wet process. By this process, to begin with, it is not necessary to crush as fine as when amalgamation alone had to be relied on, because the solution can penetrate the pores of an ore and search out particles of gold that could not have

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been touched by mercury, unless it were brought to the finest provement of trade in the United States, while prospects degree of comminution. There is, therefore, every reason to expect that before long the slime difficulty, as far as the cyanide than process is concerned, will be a thing of the past. Slimes are a serious hindrance to this process, but as the fact that coarser crushing is admissible when this process is employed becomes more generally recognised, fewer slimes will be produced. The use of the cyanide process will thus extend, and hence we may expect to find that a system of coarser crushing with a less percentage of alimes will gradually come into use.

Let us now contrast two typical gold ores-one a hard, closegrained quartz, containing gold in comparatively large particles. such as many of the Nova Scotian and some of the Australian mines produce; and the other a porous spongy matrix, with the gold in a very fine state of division, such as occurs in the Lydenburg district and on the Rand. For the former no better mode of treatment is at present known than the ordinary one of crushing and amalgamating in the stamp mill, the pulp being run over copper tables, followed by suitable concentrators. The cyanide process is not applicable to such an ore, and the tailings leaving the concentrators should be too clean to be adapted for further profitable treatment. If the second ore were treated in this way much of the gold would be lost in the slimes as float gold. Such an ore should, therefore, be crushed dry, sifted, the coarser portions going back to the crushing machine, and the fine ore being run direct into the leaching vats. After the gold has been dissolved out by the cyanide process the tailings are run away to waste. Similar to this is the process now being successfully worked at the George and May Mines, on the Witwatersraud. Obviously there is one great difficulty in this mode of procedure-There are very few mines indeed in the world in which ore is brought out of the mine in a sufficiently dry state to admit of its being crushed and sifted without being first dried arti ficially or by prolonged exposure to air and sun. Ore may be got in a suitable condition in Western Australia, Arizona, and some few similar parts of the world; but these form the exceptions, not the rule. In most places, however, drying is not a very expensive process, and may be taken as costing only a few pence per ton. The ore as it leaves the mine will, of course, be broken down to about walnut size, or even smaller, by rock-breakers, and will then be dried, and pass on to the fine-crushing plant. We, ourselves, have a preference for good, high-speed rolls for dry fine crushing, but there are numerous machines on the market that may give results about as good. What is wanted is a uniform granular product with as small a proportion of slimes as possible. Such a product is hen in the best possible condition for leaching, and the very fine gold which is lost in the slimes with battery amalgamation, is the first to dissolve in the leaching vat, and, therefore, to be saved It may be urged that any coarse gold that might exist in the ore would not be dissolved, and would, therefore, be lost. It will, accordingly, become a question whether the loss of the coarse gold or of the float gold is the greater evil; but a better solution to this difficulty would probably be found in amalgamation after the treatment by cyanide. Thus let as suggest that the following plan of treatment might probably prove the most economical and efficacious in the present state of gold extraction: -The ore should be broken small (say) to hazel-nut size, by being passed through two rockbreakers, coarse and fine respectively, thence without any drying to two pair of rolls, the lower being set to crush very close. The crushed ore, without sifting, should go direct to the leaching vats. When the leaching and washing are completed, the tailings should be sluiced out by a moderate head of water over and thence through spitzkasten that should retain any particles that experience might prove to be too coarse, so that these particles might be crushed over again.

We have hitherto only been comparing this new method of dry crushing with the ordinary system of stamping from the very large class of ores, a great improvement in gold saving is likely to result. We may now add that the first cost of such a dry crushing plant is very much less than that of a stamp mill plant, and that the current expense of operating the former, and the outlay for its repairs, will be only a fraction of that incurred in running the stamp mill. For all these reasons we to think that the above is the direction which the gold extraction practice of to-day is tending, and we believe that large bodies of very liw grade ores will be found capable of being profitably treated by some such series of processes, although they might contain too little gold, and that in too fine a state of division, to admit of being worked to advantage by means of amalgamation in the stamp mill. At any rate, the experiment is worthy of being tried, and we hope that we may be afforded ere very long an opportunity of chronicling results obtained by it.

A REVIVAL IN THE METAL MARKETS,

commercial and industrial outlook all round is reviving. At the present moment the business tendency is unquestionably upward. The long period within which buying has been restricted to the satisfaction of immediate requirements is drawing to a close, and purchases are once more increasing in all our staple branches of trade. The movement in textiles means an expansion of prosperity in the colonies, and, therefore, an increased outlay There can be no question of the genuine charac of the im- ultimate development with keen interest.

both in Australia and South America look brighter they have done for a long while past. huge sums of money which are being sent from Europe to Japan in payment of the Chinese indemnity will critics may consider but the reason assigned by the directors mainly be spent upon shipbuilding and military equipment, and, for so severe a policy of account must be allowed by all cleartherefore, must exercise a direct influence in restoring vigour to the metal markets. In the meantime, new sources of demand for metals and machinery are opening up with the application of European capital and enterprise to the development of new territories in Africa. The millions which have lately been subscribed in London and Paris for the establishment of mining and land companies in Rhodesia, for instance, will be at least to a large extent returned in the purchase of railway material, machinery, galvanised iron, and other metal goods. Whilst all the outside influences thus tend towards revival, the internal condition of the metal markets render them peculiarly sus-ceptible to any upward influence. For a long time past profits have been cut so low that production has been starved to its lowest possible limit. In copper, for instance, any further extension of the consumptive demand in America seems likely to result in a short-fall of supplies for this country. Already American producers are endeavouring to escape from forward contracts, and the demand for refined sorts at home has strengthened considerably. This combination points to a decided advance in copper prices during the next few months. To a smaller extent the same remarks apply to tin, and with any marked revival of the demand from the United States for tin-plates the prices of the metal must inevitably become stronger. In iron and steel, manufacturers are assuming a position which augurs well for the future. While consumers are pushing forward specifications under current contracts, producers are anxious to avoid committing themselves to too heavy contracts at existing rates. At present the actual improvement in demand is mainly due to colonial and South American enquiries; but as more activity is reported in the hardware and engineering branches, it should not be long before this is supp'emented by an augmented demand for iron and steel on ho ne account. It is very satisfactory, at all events, that the level of prices in England and on the Continent rests pretty much the same, and that reports encouraging than they have been for many months past. Stocks throughout the metallurgical industries are low, and it would not be surprising to see a repetition of the rapid inflation of prices which marked the metal market "boom" of 1889. Then, as now, one of the features of the financial position was extennatural that activity in one department of enterprise should extend in time to others. And, as we have said, no improvement can take place in any branch of finance or commerce without some share of its results accruing to the metal markets. Taking a broad and general survey, there would seem every upward movement in the prices of metals.

AND COMMENTS. NOTES

NE of the most striking indications of the unusual activity which has pervaded the City during the present year is to be found in the circumstance that, though we are now in the very midst of what is usually the quietest time in the twelve months, important meetings are still being held in rapid sequence, and the succession of new mining enterprises passing amalgamated copper plates that would catch any coarse gold, from the obscurity of the promotor's office into the full light of public advertisement gives no sign of falling. According to all accounts, affairs on the Stock Exchange are lively, almost without any diminution upon the briskness of the last six or seven menths. We hear of brokers and brokers' clerks being suddenly some Federation scheme, have displayed an indisposition summoned back to town from the enjoyment of a well-earned to share our national burdens in addition to their months. We hear of brokers and brokers' clerks being suddenly point of view of efficiency, and have shown how, with a certain holiday on the South Coast or on the shooting moors of the own, and this bold initiative on the part of the North, and of well-known denizens of the City circles refusing Cape colonists should exert considerable influence for to take a vacation at all. It is impossible to deny ourselves the good upon the rest of the colonies. The force of an the pleasure of comparing this spread of business activity with example of this kind cannot easily be estimated, but must, at the years of supineness by which it was preceded; and, the most unfavourable estimate, be something considerable. although according to some generally wisely-spoken financial There are, of course, reasons of a forceful character, which exprophets, we are not yet quite on the crest of the wave, we have plain why South Africa should take the lead in this matter. already experienced a sufficiently pronounced period of pro- The rest of our colonies are comparatively secured from the sperity to make up in no small measure for the long and dreary disquieting influences of too close a neighbourhood with a foreign period of waiting, happily brought to a close about the middle

THE question whether there is going to be a boom in British Davies's letter, which we publish in our columns to-day, but also success of the company. With regard to the report of subjects. the British Gold Fields, the highly satisfactory result THE organisation on a higher scale of efficiency of the Chilian mines, and for all concerned in the prosperity of the metal- which has followed upon the fifteen months working army may, according to the temperament of the enquirer, be lurgical and engineering industries, that at length there is shown in the main fact that a profit of £12,025 has interpreted as tending either towards pacification or aggresseems to be every prospect of a substantial revival in the metal been realised. Not very many years ago the possibility of a sion. Whether a state of constant preparedness for markets. As has often enough been pointed out in these columns, home gold mining company turning out in a little over a year belligerency makes for war or peace might be a matter it is impossible to dissociate metals from the general body of gold to the value of £25,955 would have been laughed at as an of dispute between the German Emperor on the one trade, and a rise in values cannot be expected except when the extreme improbability. To-day the fact stands as an eloquent hand and the Peace Society on the other, but there can testimony at once to the able management of the company be no doubt that the new Chilian cabinet are setting energeticoncerned in bringing about such a result, and to the capabilities of Welsh mining, if carried out with spirit and prudence. From very early times we have more than once hinted at the has its effect upon the peace of the South American Republics possibilities latent in British gold mining if the same business qualities were brought to bear upon the home industry as are ungrudgingly devoted to the same remunerative pursuit in other upon railway and other metal-consuming public works, and just parts of the world. There are very clear indications, at least, there are now changed considerably from what they were when now there is something like a "boom" in the textile trades. of a revival, in Welsh gold mining, and we shall watch its Darwin heard of scores of pale-faced men carrying ore up a

THE leading feature in the report of the Johannesburg Consolidated Investment Company is certainly the diversion of so The large a sum as £796,000 from distribution to reserve and suspense accounts. Undoubtedly this is a large sum-too large some sighted and impartial judges to carry considerable weight. "In view," they say, "of the large amount of capital required to deal with undertakings which are constantly arising in connection with the development of the Transvaal, the directors deem it expedient to retain large resources on hand." Probably at the forthcoming meeting in September, a good deal of the shareholders' criticism-sharpened by the keen sense of a loss of individual revenue-will be directed towards this joint in the directoral armour, if so it is to be considered. The shareholders might, perhaps, fairly ask for more light to be thrown upon the rather obscurely-hinted-at "undertakings" which are "constantly arising in connection with the development of the Transvaal." While making every allowance for the inadvisability of publishing names and details involved in negotiations still pending, it might certainly seem that a little more might be divulged without in the least imperilling the security of the consolidation. At the same time, it is wise not to lose sight of the constantly-verified epigram that "circumstances alter cases." Silence may upon occasions be something more than golden. It may even be—figuratively speaking-diamondiferous. There remains yet to be seen whether this is a case in point.

A MOTION lately introduced into the Chamber of Mines, at Coolgardie, proclaiming the desirability of establishing local offices and a register of local shareholders in connection with West Australian mines, encountered so much opposition at the hands of the members that it was, by leave, withdrawn. Many boards of direction would, we feel assured, rather resent the imposition of such a regulation as is here described, and the compensating advantages to residents in the colony are at least not such as carry instant conviction to the enquiring mind, The increased facility for the transfer of shares might foster the spirit of local gamb'ing, but the shareholders at from German and Belgian metallurgical centres are more home, who for the most part, at least, are desirous of acquiring solid investments rather than an interest liable to more or less wild fluctuations of value, would not have their advantages subserved by the constant succession of mining echoes that would probably pass over the water. It is by no means certain that such an arrangement would not injuriously affect the interests sive speculation in gold mining shares, and it is, after all, only of the community in which it originated. Though it would not seriously bar the way to the introduction of outside capital, a regulation of the kind mentioned might conceivably detersome syndicates and companies from acquiring properties where they could not enjoy immunity from hampering conditions. Under the proposed arrangement the local sharereason to believe that we are at the beginning of a strong holders would have their English co-partners at a upward movement in the prices of metals. later and, perhaps, more reliable when gained on the spot, than after travelling some thousands of miles across the sea, and the local dealer would certainly have the London shareholder "on the hip," a condition of affairs conductive to the permanent interests neither of colony nor mother country. So the Chamber of Mines in rejecting the proposition without a vote, was to our thinking, very well advised.

THE formation at the Cape Colony of a Navy League, whose object it is to contribute towards the maintenance and perfection of the British Navy-upon whom, of course, lies the major part of the responsibility for the preservation intact of the Imperial fabric—is certainly one step forward towards the desired end of Imperial Federation. Hitherto, our colonial relatives, though anxious almost as ourselves for the completion of colonists should exert considerable influence for power. South Africa, on the other hand, seems to be the arena in which the European powers will, if anywhere, work out their future conflicts. It is, moreover, an unpleasant fact that some mines is brought prominently into mind, not only by Mr. far-sighted men at the Cape are apprehensive of future trouble with the South African Republic, and the presence of a powerby the lately-issued report of the British Gold Fields (Limited). ful squadron somewhere off the Natal coast will be a convenient Mr. Davies sends us information of a rich strike in the Clogau thing to have in troub'ed times, and might lend no small in-Mines, which has impressed him very favourably in regard to fluence towards ultimately working out the problems at issue. the future of the company. In character, it appears to be of It only remains to hope that the other British colonies will sufficient permanence to justify a strong belief in the ultimate follow the excellent example of their South African fellow-

cally about the work of raising the standard-in excellence, we mean-of the forces under their charge. So far as this move it has a very serious import for mining men. The value of English interests in the narrow strip of land between the Cordilleras and the sea must now be something enormous. Things distance of 450 feet in 200 lb. packages. Crude methods may

still obtain in some of the out-of-the-way districts, but for the most part mining, as carried on there, is fully abreast of contemporary development. The native population, too, is rather more knowing than when large deposits of pyritic copper ore were sold for a few shillings in the cheerful conviction that they were worthless. In any case, the country can hardly afford the loss and bloodshed of a war, even though carried on by their own National Guards, highly disciplined by German officers.

Mr. Albert Calvert's speech from the chair at the statutory meeting of the Consolidated Gold Mines of Western Australia gave a very clear reflection, not only of the present position of that undertaking, but also of the course of events leading up to it. The properties owned by the company are, undoubtedly, large, as is also the working capital at command for their exploitation. Calculating upon the bare law of chances, it is not probable, even if possible, that so many eggs-to use the expresgive if time-worn metaphor-as those in the ownership of the company should all turn out to be addled. The work of completing the liquidation, and the more constructive one of the transfer of the properties to, and the amalgamation of the various companies'interests in the new undertaking, delicate and complicated though it must have been, is at length completed, and the Consolidation is now in titular possession of ten properties, with an extent of 144 acres. From this statement it will at once be seen that the sphere of the company's operations is sufficiently extended to satisfy a liberal ambition. The Chairman is strong in the belief that considerable advantages in economy and efficiency will accrue from the method of working the mines in groups. To some extent, it appears, the company's operations will be conducted in conjunction with the North-West Australian Gold Fields Company. The directors of the former enterprise are, according to their Chairman, sanguine enough to "consider that this working arrangement between the two companies" gives them "the premier position on the gold field." It is not necessary to concede the whole of this claim to see that such a working ar angement as is here indicated may be productive of highly beneficial effects to the company whose affairs we have been briefly considering.

WHEN the French have finished their badly-conceived, but passably-executed, expedition to Madagasear it is possible that the island may be thrown open to the influx of outside capital and that mining may be commenced there in earnest. At present, though the country is known to be rich in minerals, few enough of the natural resources are turned to account. Some few natives have developed sufficient enterprise to lease certain areas for a given time, and to work them with the rude and primitive appliances commonly resorted to by the untutored miner. Nothing like a serious and systematic exploitation of the mines in the island has yet been attempted, but the results attained even by desultory and scrappy working seem to show that Madagascar is well worth the close attention of the Western miner. gold nugget, weighing 54 ounces, has lately been won. Gold. however, is not the only precious product of the mines Diamonds and other less precious stones are found in fair abunance, and coal exists sufficiently plentifully to well repay working. Already a certain number of Europeans have concessions in the domains of the dusky Queen, but their operations are to some extent hampered by Royal regulations. What will happen when the French are in power at Antananarivo is, perhaps, doubtful; but, in all probability, the border of the country will not be quite so jealously guarded against foreigners.

THE mails just to hand bring full particulars of the fire at the Broken Hill Mine, which evidently from the accounts published -many of which were written from hour to hour as the conflagration progressed—was by no means insignificant in character and extent. As the flames spread from point to point the miners tried by every resource of ingenuity to cope with them. Water was poured down in floods, and possible channels between the ignited parts of the mine and others still unaffected, were carefully stopped up by wet bags, sand, and blankets. The men did excellent work in their efforts to get the fire under, and, serious though it must have been, there might have been even a worse tale to tell but for their unremitting energy and their contempt of danger. The shareholders in London, while under the influence of the misfortune which the fire has brought upon them, should certainly remember with gratitude the work of their employeesunceasingly pursued at great peril to limb and life-to minimise the damage done to their property.

Somerhing of what the early seekers after gold have had to contend against in their pioneer work within the West Australian borders is reflected in a letter recently written by one who has, to use the conventional phrase, "been through the Railways, it is well-known, already exist in parts of the country, and others are projected, but railway travelling there differs materially from railway travelling in England. A pace of 16 or 17 miles an hour, occasional stoppages of 30 or 40 minutes at the 'different stations, and a jolting to be appreciated only by those who have sometimes obtained the enviable privilege of taking a short trip on a shunting enginethese appear to be the normal experiences of railway travelling in some outlying districts of Western Australia. As for the scenery, if so it may be called, of the country tracts between Perth and Coolgardie, it is of the most flat and depressing description. "There is," says the correspondent, in a melancholic vein, "no variety of trees as in the woods at home; there are no banks, no 'dells, no flowers, no animals-nothing but miles of flat sand, with trees growing out of it. Everything oks dried-up." His description of the general appearance o S uthern Cross, and the extent to which insenitation has been caried there, are too pessimistic for quotation, and may possibly be referable to the depression engendered by a first acquaintance with uncongenial surroundings. With due allowance, however, for embellishment, there is enough substantial discomfort described in the letter to show that prospecting is not the most fascinating pursuit known to man.

THE MINING MARKET.

FRIDAY EVENING.

The Start of the Autumn Boom. - A Heavy Account Satisfactorily Arranged. - Big Rise in Chartered and other Kaffirs.-West Australians improving.

THE Mining Market has now reached the period which has all along been selected as the starting point for the great Autumn boom. September has, by universal consent, been pitched upon as the month in which the buoyancy and excitement of the past were to be put into the shade by a furore without parallel within the memory of our generation. The start for this great event was to come "after the holidays," but for very many members of the Stock our generation. The start for this great event was to come "after the holidays," but for very many members of the Stock Exchange and their clerks, there has been no holiday season. We have arrived at September and find everything prepared for the fulfilment of the prophecy. The Settlement which has been in progress during the current week has disclosed the existence of a very large account for the rise but disclosed the existence of a very large account for the rise, but there has been also an enormous business done for capitalists and smaller investors who have not had occasion to ask favours of those who dole out accommodation. The widening of the markets, not merely in France, and on the big European Bourses, but even in Wall-street and other American centres, to say nothing of the extensive support coming from Africa, has now placed the South African mining industry on so substantial a basis that doubts can no longer exist as to on so suprantial a seas that doubts can no longer east as to its permanent share in the financial world. On a loss extensive scale, though with increasing widenings, is the West Australian gold industry establishing itself in public recognition. The business in these two departments of the London Stock Exchange now completely dwarfs everything clse, and this being the case, with such signs as are evident of the interest taken by the outside public in the movement, there seems little risk in accepting the general view that the Autumn boom will accomplish much that the prophets have foretold. At the same time prices have now reached so high a level that the utmost care is necessary in the selection of shares for purchase. care is necessary in the selection of shares for purchase. We do not mean by this that much discrimination is necessary in the selection of shares that may go temporarily better. The thing is to avoid getting landed with stock which will ultimately be unsaleable except at a ruinous loss. This is a great danger of boom times. Speculators have no time for discernment. They follow "tips," and rush in to buy anything and everything without attempting to separate the wheat from the chaff the wheat from the chaff.

the wheat from the chaft.

The carry-over in the Mining Market made a satisfactory start on Monday, but the business to be arranged was far too large for one day's adjustment. Well into Wednesday dealers were engaged with the Making-up, and as has happened on several previous occasions, there was a good deal of picking and choosing, not merely in the stocks taken in, but in the individuals to whom accommodation was extended. The floating arount of to whom accommodation was extended. The floating amount of money in the Markethas naturally to be increased with the approximation. ciation of prices, or else the number of shares carried over must be curtailed. There has never been a lack of capital facilities in the African section for men of substance; but, on the other hand, the Westralian market is by no means well supplied with funds for Account purposes. The fact that a speculative Account is practically at the mercy of the big money lenders is an unfavourable factor that must not be lost sight of. lenders is an unfavourable factor that must not be lost eight of. It seems hardly worth while to enter into a dissertation upon the day-to-day movements of the present week. For the first four days the Settlement was in full swing, and engrossing the attention alike of dealers, brokers, and outside operators. During its progress a large new business was done under considerable difficulties. To-day we are fairly launched upon the new Account and markets are strong, with rising quotations on all sides. To-morrow (Saturday) will be a broken day, but Monday will witness an event which has been anticipated with an extraordinary amount of interest—viz., the introduction upon the market of the shares of an institution generally alluded to as "Barney's Barney's Ranney's Rann e shares of an institution generally alluded to as "Barney's." Rumour has been extremely active with circumstantial Bank." Rumour has been extremely active with circumstantial details of the flotation of this concern. We understand that a company has been registered under the title of the Barnato Mining and Estate Company (Limited), with a capital of £3,500,000 sterling, in £1 shares, and the general idea is that it is to be a trust company on a large scale for the manipulation of mining shares and other securities in which Mesers. tion of mining shares and other securities in which Messrs. Barnato Brethers are specially interested. It is anticipated that dealings will be started in the £1 shares at a premium of about 200 per cent., so that in the opinion of the market, this embryo creation is at once worthy of a capitalication of ten million sterling. We need not further discuss this project at the present time, beyond drawing attention to the episode as a strong indication that the powers that be do not contemplate leaving the African Market to take care of itself.

South African Shares.

To give anything like a complete list of the fluctuations in the South African market during the past week is palpably impossible. The upward movement has been general, and where there are losses on balance they are quite insignificant. To commence with the Barnato stocks, we have to note improvecommence with the Barnato stocks, we have to note improvements of \(\frac{1}{4} \) in Buffels. at 9, \(\frac{1}{16} \) in New Primrose at 8, and \(\frac{1}{4} \) in Spes Bona at 3\(\frac{1}{4} \). Whilst Crossus at 3\(\frac{1}{4} \), Ginsberg at 2\(\frac{1}{4} \), Glencairn at 4\(\frac{1}{4} \), Langlasgte Royal at 4\(\frac{1}{16} \), May Consolidated at 3\(\frac{1}{4} \), and Barnato Consols at 5\(\frac{1}{16} \) are all within a shade of last week's prices. The balance-sheet of the Johannesburg Consolidated Investment Company has come in for some strong criticism, which added to the disclosure of a weak bull constant with some difficulty in continuation, has Company has come in for some strong cri which added to the disclosure of a weak account, with some difficulty in continuation, brought about a slight reduction in the shares at 62. of a weak continuation, Robinson Stocks have een inclined to dulness, and the portant change is a spurt of \$ in Langlaagte to 6\$. Randfonteinsf after touching 4, are slightly below that figure at the close. The shares of the Robinson Bank, which will answer the same unction with regard to these shares as "Barney's Bank" to the other group, are half a point better at 114. Perhaps the greatest rush, at any rate on behalf of French operators, has greatest rush, at any rate on behalf of French operators, has been in Deep Level properties. The feature of the last day or two has been the spurt in East Rands, which are 1½ better at 18½, and are talked up to 10. The subsidiary Comets are ½ better at 4½, and St. Angelo ½ higher at 6. Gold Fields Deep started at 9½, and by Monday were over 11. They have since touched 12, but are finally 2½ up at 11½. Nigel Deep are a point to the good at 4½, with Geldenhuis Deep the same amount better at 11. Rand Mines, which we left at 34, were 38½ on Monday, and on Tuesday changed hands a small fraction under 40. There has since been a reaction to 38, which still marks a gain 4 on the week. Consolidated are 1½ better at 7½, and others in this group show minor improvements. A prominent lead has been taken during the week by Simmer and Jack which close 3½ up at 23.

Knights again have been well supported from Paris and after Knights again have been well supported from Paris and after going over 11, are 1½ up at 10½. The amalgamation of George Goch and Metropolitan has brought about improvements in the shares of both companies, those of the former being ½ up at 3½, and those of the latter ½ better at 3. Modders have risen 1½ to 15½, Durbans ½ to 8½, Henry Nourse 1½ to 7½, Robinson's ½ to 11½, Transvaal Gold 1½ to 10½, Van Ryn ½ to 10½, Wolhuter ½ to 11, Jumpers ½ to 8½ xd., and so on. African gold properties are firm at 4, and active dealings are reported in the shares of the first subsidiary company, the Randt Gold Mining recently formed with a capital of £80,000, all privately subscribed. The 5s. shares are strong at 8s. 3d. Chartered have been a very strong market since the Account The amalgamation of George

Chartered have been a very strong market since the Account, jumping to 8½, a gain of 1½ on the week. The dealings in these shares were quite the feature of to-day's market. Consothese shares were quite the feature of to-day's market. Consolidated Gold Fields are 2\s^6_5 better at 16\s^7_2, with Gold Trusts 1\s^1_2 up at 11\s^1_4. Oceans hard at 4, Oceans Minerals \s^5_5 better at 2\s^7_3. New African \s^6_5 up at \s^8_4\s^7_2, with growing business in Austral. African shares, which have been largely dealt in round 2\s^5_5, and are talked better. Anglo-French Explorations are \sqcat1 better at 6. Another company in this section which has come to the fore is Rhodesian Mining and Finance, the fully-paid shares being up to \sqcat2\s, whilst those with 10s paid are queted at \sqcat1 \sqcat{1}\sqcat{2}\sqcat{1}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqcat{2}\sqc Finance, the fully-paid shares being up to £2, whilst those with 10s. paid are quoted at \$\frac{1}{4}\$ premium, and are talked higher. Klerksdorp are rather easier at 26s. 6d., but Potchefstroom have risen \$\frac{1}{4}\$, to \$2\frac{1}{4}\$. Of the Lydenburg Properties also dealt in in the Miscellaneous Market, Lisbons are good with a gain of 4s., at 14s., and Spitzkops are \$\frac{1}{4}\$ higher at \$2\frac{1}{4}\$, with prospects of a much larger improvement. Diamond shares have participated in the larger improvement. Diamond shares have participated in the general rise, De Beers being 4 up at 284. Gordons have been run up from 9s. to 12s. 6d., and St. Augustines from 14s. to 16s. 6d.

West Australians.

We have already referred to the increased activity in this section, the lead in which has been taken by Great Boulders, which close 11 better at 6 "buyers," on flattering expectations of forthcoming crushings. The insiders predict very much higher prices for these shares. Associated Mines are # higher at 1.7 and are regarded as a very good lock-un at the price. Brown Hills are £1 und White Feathers have advanced \$\frac{3}{2}\$ to a highly satisfactory report. The Hampton group continues strong, Landsclosing at \$6\frac{3}{2}\$, Plains at \$4\frac{1}{2}\$, and Exploration 5s. higher on the week at 18s. 6d. Coolgardie Syndicate are 14 and considerable attention has been attracted to Westralia os. Inguer on the week at less of. Coolgardie Syndicate are 1; and considerable attention has been attracted to Westralia (Limited), the shares of which are ‡ better at 2‡. Mainland Consols have put on 75 at 3 35. Lady Loch 3 at 1 75 and Gold-n Crown 75 at 2‡. Among the Trust and Finance Compunies prominent gains are shown in Finance at 4‡, Gold Estates at 2 75. and General Association at 2 5; Londonderry's after touching 3 have eased off to 14. touching \$, have eased off to \$1.

Miscellaneous.

There is very little to record in this department, beyond a ageneral inclination to follow the lead of Kaffirs. Copper shares have been well maintained, though Tintos are a shade easier at 18. Burma Rubys are 4s. up at 27s., and Wentworths are 4 down at 1, with Broken Hills unchanged at 14. There is nothing worth talking about in New Zealand, Indian, or nothing worth talking about in New Charters Towers varieties.

British Mines.

The Cornish Market has been a shade firmer this week, and The Cornish Market has been a shade firmer this week, and Dolcoaths commanded attention, and a good many fully-paid shares have been quietly absorbed at about 20s., while on the partly-paid 1s. 6d. prem., has been bid without evidencing business. If a number had been available at a higher price they would probably have been taken. Carn Brea steady at 2½. East Pools about 4, and when matters are arranged with Wheal Agar higher prices may be expected. Tincrofts are lower, with sellers at 3½, but there seems no reason for the fall. Wheal Bassets at adv at 50s. Granvilles about 134. 12s. 6d. bid for Wheal at 83, but there seems no reason for the fall. Wheal Bassets ateady at 50s. Grenvilles about 13½. 12s. 6d. bid for Wheal Kitty's, but at the moment there are no sellers; the lode in Vottle's shaft continues good. Risen: None. Fallen: Blue Hills, 5s.; Dolcoath (2s. 6d. paid), 2s.; Killifreth, 2s. 6d.; South Crofty, 5s.; South Frances, 2s. 6d.; Tincroft, West Kitty, 5s.; Wheal Basset, 5s.; Wheal Kitty, 2s. 6d.

STOCK EXCHANGE SETTLING DAYS. Settling Days on the Stock Exchange are as follow:-

CONSOLS.
Tuesday, October 1 Monday, September 2 STOCKS AND SHARES.

AUGUST. Wednesday, August 28 | Thursday, August 29

SEPTEMBER. Wednesday, September 11 Thursday, September 12
Thursday, September 26 Friday, September 27
Contango Days for South African Market:

Monday, August 26 | Monday, September 9
Tuesday, September 24.

CORRESPONDENCE

We wish it to be understood that we do not held ourselves responsible for, and do not necessarily endorse, the opinions of correspondents. munications must be accompanied by the names and addresses of the senders though these need not necessarily be published.

THE CLOGAU GOLD MINE-A RICH STRIKE.

TO THE EDITOR OF "THE MINING JOURNAL."

CIR, -You will be interested to learn that another rich striked gold has been made at the Clogau Gold Mine, North Wales, at the bottom of the winze which is being sunk on the lods below the adit level. at a total depth below the surface of nearly 500 feet. This find is of the greatest importance, as it proves the continuance in depth of the rich shoot of gold which has been followed downwards from the surface with such as the surface with surface wit the continuance in depth of the rich shoot of gold which has been followed downwards from the surface with such marked success, the milling of which has yielded 1.91 ounce to the ton on over 2000 tons of ore crushed.

The gold in the new find is plainly visible to the naked eye, and there is every reason to believe that the bulk of the ore below the adit will give as good milling results as that obtained

There is every prospect of this mine being worked in a vigorous manner in the near future. In the past its output has put to manner in the near future. In the past its dusplet to shame the richest mines in the Transvaal, in spite o the primitive appliances used for recovering the gold.

With modern methods and machinery it should maintain a foremost place as a gold producer.—Yours truly,

E. HENNY DAVIES, M.E., F.G.S.

Royal Hotel, Dolgelly.

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LATEST FROM THE MINES.

CABLEGRAMS AND TELEGRAMS.

ALADDIN'S LAMP.—The following cablegram has been received from Mr. C. G. Warnford Lock, the new superintendent at the mine:—"The total return for the last four weeks is 1285 ounces of gold (approximate value £4660)—namely, 270 tons of ore crushed have yielded 860 ounces, and 4 tons of rich ore have been shipped, containing 425 ounces. The stopes still hold good. The ball mill resumed work on August 19."

August 19."

BECHUANALAND EXPLORATION.—The Bechuanaland Exploration Company (Limited) has received the following cablegram from its general superintendent in Buluwayo:—

"There have been wonderful discoveries in ruins near Belingwe, the superintendent and the superintendent in the supe

"There have been wonderful discoveries in ruins near Being we, gold ornaments, bangles, beads, weighing 208 ounces troy."

BIG BLOW.—The following cablegram has been received on the 24th inst. from Mr. W. M. Vivian, the manager:—"Sufficient water for 10 stamps. Expect increase the quantity as we go desper. We have been waiting for cement for concreting the foundations for mill. Will commence to erect the mill next

Week."

RROKEN HILL PROPRIETARY —" Report for the week ending August 29, 5953 tons of ore were treated, yielding 539 tons of lead, containing 122,206 ounces silver, also 1696 tons treated by amalgamating and leaching plants producing 27,855 ounces silver. The price of the shares in Melbourne is

£1 16s. 6d.

CARRINGTON.—The manager has cabled (August 29) from Charters Towers, as follows:—"Floors are coming in very quickly in the shaft. Indications are favourable for reef formation. I cannot estimate the exact depth it will be intersected."

COLOMBIAN HYDRAULIC.—The directors have this day

received the following cablegram from their superintendent:—
"The mine has been suspended by Seãor Paris for 18 days. Shall not be able to recommence, pending the decision of the Court. Am now sending £800." The directors do not anticipate that this will result in any serious delay.

CONSOLIDATED MURCHISON GOLD.—Cablegram from

CONSOLIDATED MURCHISON GOLD.—Cablegram from mines:—"460 tons ore crushed, yield 418 ounces gold."
CROMWELL.—The following advice has been received by mail, giving the result of a clean-up by the tributers to 9th ult., viz:—"71 tons yielding 100 ounces 11 dwts. of gold."
OENTRAL DE KAAP.—The following cab'egram has been received from the manager, viz.:—"Strike reported in No. 4 shaft, average assay value of ore 1 ounce 7 dwts." According to the latest information the width of the lode here was 7 feet.
COLENBRANDER'S MATABELELAND DEVELOP-MENT.—A cable has been received from the managing director, dated August 26, as follows:—"I have found fresh reef, Golden Quarries, 4 feet. The result is very satisfactory."
DAY DAWN BLOCK AND WYNDHAM.—The directors have received the following cablegram from the general man-

have received the following cablegram from the general manager at Charters Towers, giving the result of the crushing for the fortnight ending 24th instant:—"Tons crushed, 1020; yield of gold, 742 ounces; approximate value, £2560; fortnight's

DURBAN-ROODEPOORT.—The directors have received a cablegram to the following effect:—" Eighty stamps running."
ELKHORN.—" Bullion produced in the mill for the week

ending August 25, 9300 ounces."

GEM OF CUE.—The following cable has been received from the company's agents, at Cue:—"Whitelaw reports good is still being found. Are now sinking. Have sent full particulars by

GREAT SOUTHERN TIN.—The mining manager reports:—
Toors, Australis, July 23: Tunnel at south end the past fortnight has been driven 22 feet, total 470 feet 6 inches.—North end.
Rock cutting same time advanced 111 feet, total 211 feet. By
cable: "A further trial of the gravel deposit assays 5 ounces
15 dwts, of gold per ton of tin sand."
HAMPTON PLAINS EXPLORATION.—The directors

HAMPTON PLAINS EXPLORATION.—The directors have received the following cablegram from their agents in West Australia, Messrs. Bowick, Moreing, and Company:—
"Have secured nine claims of 50 acres each, and two claims 25 acres each on Block 45. Also two claims on Block 48."
HAWK'S VIEW.—A cablegram has been received from the Hon. W. O. Hodgkinson, managing director, stating that he has taken possession of the property on behalf of the company, that the mine is looking well, and that work is actively proceeding.

eeding.

HEIDELBERG.—A cable to the following effect has been received from the manager at the mines:—"Samples taken from the three shafts in course of sinking show an average assay of 2 ounces 2 dwts. per ton."

HANNAN'S REWARD.—The following cablegram has been received from the manager at the mine, dated August 24:—
"Water level has been reached; little water showing; the country rock is full of arsenical pyrites."

HENDERSON AND FORBES.—The following is an extract from a letter recently received from Mr. Forbes:—"I have been prospecting on this property for over two weeks now with a strong party, and found one reef that averages 15 dwts. per ton; but it is only 1 foot wide where we found it, but likely by following it up it may be wider in other places."

MOSMAN.—The directors have received the following cablegram from Charters Towers:—North Australian Shaft: 182 tons

gram from Charters Towers:—North Australian Shaft: 182 tons have yielded 282 ounces of gold.—Wyndham shaft: 133 tens, have yielded 148 ounces of gold. Have shipped 392 ounces of bullion per s.s. Merkara. The approximate value of the above

returns is £1350.

returns is £1350.

MOUNT MORGAN.—The following telegram has been received from the head office, Rockhampton:—"We pay £2500 on September 2, being dividend of 6d. per shar: (free of dividend-tax) for the month of August."

MOUNT ZEEHAN (Tasmanis).—A telegram received on August 26 states:—"No. 8 lode, No. 2 level north, 9 inches of galena. The ore assays about 7% per cent. lead and 100 ounces silver per ton. All the works looking well. Developments opening up splendidly."

oning up splendidly,"
NEW GUSTON.—The following cable information has been ALW GUSTON.—The following cable information has been received from the mine:—"Output, July month: Ore shipped, 2360 tons. Value (estimated), \$26,500. Mine expenses, \$16,000. Ore shipments: The tonnage for July month, viz., 2860 tons, consisted of five carloads (51 tons) of high grade ore shipped to the Philadelphia Smelting and Refining Company, Pueblo; 19 cars (199 tons) of high-grade ore shipped to the Sau Juan smelter, Durango: and 186 cars (2110 tons) sent to the Silvarton smelter."

the Silverton smelter."

OTTO'S KOPJE.—Mr. Lisle cables that after a stoppage of a fortnight for repairs, washing was recommenced on Monday,

PRINCESS ROYAL MINE .- The directors of the West Aus-Talian Gold Concessions have received a telegram from their representative, Mr. A. Spencer Ellam, to the following effect:—
"The number of tons of ore in sight at the mine is 4000."
SIMMER AND JACK.—Last month's profit was £9600,

RICHMOND CONSOLIDATED .- Mr. Henry Wright, the joint manager of the Richmond Company's lease, and the four leases of the Mount Rowe Consolidated Mining Company (Limited), in the Coolgardie go'd field, has now arrived at the mines, and has sent the following telegram, which would refer to both properties:—"Developments opening up splendidly, have made arrangements for trial crushing 50 tons of ore. Gold visible to the eye."

have made arrangements for trial crushing 50 tons of ore. Gold visible to the eye."

SALISBURY REEF.—The managing director at Salisbury, cables.—Manager reports: "Have struck a seam of 5 feet in width, Alpha block, pannings give good results, 30 dwts. per ton. Samples will be sent."

SALISBURY-MURCHISON (LIMITED).—Mr. Wattis, of Ballarat, has been appointed manager and will proceed to the mines immediately. The hoisting machinery has been ordered, and will be shipped at once.

SELUKWE DEVELOPMENT SYNDICATE.—The follow-cablegram has been received from the Hon. Maurice Gifford

SELUKWE DEVELOPMENT SYNDICATE.—The follow-cablegram has been received from the Hon. Maurice Gifford (local director), dated Buluwayo, August 26:—"Have returned from Tebekwe, have struck the orebody in west drift, main reef, 9 feet; we are not yet through. Strike made in Mackinnon's shaft, 80 feet, assays 2 ounces per ton; south shaft, 100 feet, assays 15 dwts. per ton."

ST. JOHN DEL REY. — The following telegram has been received from Mr. Cha'mers.—"Produce 10 days, second division August, 9000 citavas, equal to 1037 ounces troy; value, £3487; yield per ton, 601 citavas (7032 ounces troy)."

SPRINGDALE.—The following cable has been received in London:—"Gold Standard Mine: Shaft has reached a depth of 125 feet. The body of ore is increasing in width—3 feet first-class ore. Have struck a large body of ore in the east level. The mine superintendent's report is most encouraging."

TATI CONCESSIONS.—The directors of this company have received a cablegram from Mr. C. R. Vigers, their resident general manager at Tati, as follows:—"New Prospect Mine. Have cut the vein on the 62 feet level; the width of the vein 2 feet. Average assay value of ore in the mine is 4 ounces."

Have cut the vain on the 62 feet level; the width of the vein 2 feet. Average assay value of ore in the mine is 4 ounces."

UNITED MATABELE CLAIMS DEVELOPMENT.—The following cablegram has been received from the representative of the company, at Buluwayo:—"Home Rule. Struck ore assaying 15 dwts. per ton. Camperdown strike still holds good."

VIOTORIA GOLD MINING ASSOCIATION.—The following cable has been received:—"For four weeks 555 tons crushed, yielded 633 ounces gold."

WALL SILVERTON EXTENDED GOLD.—The following

WAIHI SILVERTON EXTENDED GOLD.—The following

walfit Silverton Extended Gold.—The following is a copy of cable received from Auckland:—"The crosscut from the shaft has cut the Silverton lode. The width of the lode is 14 feet wide, average assay of lode being value per ton £6 10s."
WAIHI.—Cable advices report month's crushing diminished by frost, now passed away. Better returns expected in future. For the four weeks ending August 24 last, 2700 tons were crushed for a yield of £9500. The Martha reef has been cut and driven into for 4 feet severing as for a driven 16 dwts. and driven into for 4 feet, assaying, as far as driven, 16 dwts.

and driven into for a 1995, assessing, as per ton.

D'ARCY ESTATES,—The report dated July 20 states that the main shaft is now down a total depth of 464 feet. Progress for the week 8 feet. Formation continues same.

ORITA. — The following report from the mine has been received at the London office.—Mine: I cannot yet report that the break at Medina is repaired. On inspection we find that to make a good job of this it is necessary to put in 180 feet more flume. As heavy lumber is a great distance off we have placed on bridge iron rails in placed of wood. To carry out all repairs it will yet take us 20 days.—H. J. Prender.

The LISTS will OPEN on TUESDAY, 3rd September, 1895, for TOWN and COUNTRY APPLICATIONS, and CLOSE the SAME DAY.

LOMATIE (LYDENBURG) EXPLORATION COMPANY (LIMITED)

Capital £150,000, in 150,000 Shares of £1 each. Now Offered for Subscription - 50,000 Shares, to provide £50,000 Working Capital. Payable 5s. on Application and 5s. on Allotment, and 10s. on November 1st.

By reference to the enclosed map it will be seen that this properly adjoins the proclaimed De Kaap Gold Fields in the Lydenburg district of the Transvaal, is about 20 miles east of Barberton, and within a few miles of Moodie's Gold Fields. fields.

nearest railway is the line from Delagoa to Pretoria, being about 14 miles

Gold Fields.
The nearest railway is the line from Delagoa to Pretoria, being about 14 miles distant.
The Directors are satisfied from information in their possession—

1. That Gold-bearing Reefs have been discovered, and development work has already been done by trenches, shafts, and crossouts, to the extent of over 9000 feet.

2. That the farms are exceptionally well situated as to wood and water.

3. That there is sufficient water power in the Lomatic River, which runs through the property all the year round, for stamp mills of large capacity.
These advantages, combined with che ap labour, and proximity to the railway, should enable the Company to work one even of a low grade, profitably. The area of the estate, being about 115 square miles, will permit of the reale of portions, from time to time as opportunity occurs, without interfering with the operations of the Company.
Vigorous prospecting operations will be at once commenced.
The Vendors have fixed the purchase price of the property at £100,000, the whole of which they have agreed to take in fully paid-up shares, thus leaving \$50,00 shares, the present issue, available for providing working Capital.
The following contract has been entered into:—

Angreement dated the 30th day of August. 1835, between The Mines Contract Company, Limited, of the one part, and this Company of the other part.

Mr. S. Okoworks, being interested in the sale as one of the Directors of the Vendor Company, will not act as a Director of this Company until after the completion of the purchase,
Applications for Shares should be made on the form accompanying this prospectus, and forwarded to the Bankers of the Company, with a remittance of 5x, per share. If no Alionment is made, the money will be returned in reduction of the amount payable on aliotiment.

The Agreement and Memorandum and Articles of Association can be inspected at the Offices of the Scienterry at the Offices of the Company.

Prospectuses and Forms of Application may be obtained from the Bankers and Sciention con the

METAL MARKETS.

LONDON METAL MARKET. THE METAL MARKET, LONDON, AUGUST 30. Copper.

Copper.

In the weak moments of the speculative market, American buyers came to the rescue, with the result that we had firmness again. On Friday the realisations of an outside holder somewhat flattened the tone, but in the afternoon there was again American aid, and a slight reaction for the better. The American market seems scarcely so firm, and European consumers are a little more chary of buying, and, as a consequence, refined coppers also close a little below the best. Statistics for the second half of the month, however, are expected to be favourable. The day-to-day fluctuations in G.M.B's were as follows:—Monday opened firm and higher, £47 16s, 3d. three months being touched. Tuesday closed flat at about 7s. 6d. decline. Wednesday saw a recovery to £47 7s. 6d. s.c., and £47 16s, three months. Thursday was 2s. 6d. to 3s. 9d. easier, and on Friday £46 17s. 6d. cash, and £47 3s. 9d. three months were done, the closing tendency being rather sensitive and undecided at £46 17s. 6d. s.c., and £47 5s, three months.

Tin

Tin There has been an absence of support from the more powerful quarters and values, after a little advance, have tended lower not-withstanding that shipments for the month seem to have been overestimated by 500 tons or so. The week opened at £65 2s. 6d. s.c., improved 5s. on Monday, and a little more on Tuesday. Wednesday was steady. On Thursday a little ground was lost, and Friday's market closed rather dull at £64 15s. s.c. and £65 2s. 6d. three months, rather sellers. The Dutch market opened at 39\frac{1}{2}\$ fl. s.c. and 39\frac{1}{2}\$ fl. s.c. three months; improved \frac{1}{2}\$ on Tuesday and Wednesday, reverted to Monday's price on Thursday, and lost \frac{1}{2}\$ on Friday, the market closing quiet at 39\frac{1}{2}\$ fl. s.c.; 39\frac{1}{2}\$ fl. three months for Billiton. Banca at the close is 39\frac{3}{4}\$ fl.

Pig Iron. Fig Iron.

Shipments last week, 6660 tons, against 2447 tons for same period last year. All the speculative markets have been busy, and have seen a steady advance, and this is most marked in the case of hematite. Closing quotations are:—Scotch, 47s, 2½d, a,c., 47s, 4½d, a month buyers, with sellers at ½d. and 1d. more respectively, Middlesbrough, 38s, 4d. to 38s, 5½d, s.c.; 38s, 6d, to 38s, 7½d, a month. Hematite, 48s, 1½d, to 48s, 2½d, s.c.; 48s, 4d, to 48s, 5d, a month. Stocks in each case, however, have been added to.

Load. Lead.

A good consumptive demand has again sprung up, and no coniderable quantities seem to be offered. The quotation is £11 for oft foreign (at which very little is to be had), and £11 2s. 6d. to £11 5s. for English. Spelter

has been steady, but hangs fire at the moment, and quotations are just a shade easier at £15 5s. to £15 6s. 3d. for ordinaries, and 2s. 6d. to 5s, more for specials.

Antimony.
A quiet market, with not much doing. Quotation is £31 10s.

Quicksilver shows no change. First-hands £7 5s., seconds £7 3s. 6d.

The following are to-night's (August 30) prices of metals:-

a. d. ... \$0 15 0 ... \$1 10 0 Copper. Fough cake and ingot Sest selected --- 0 0 734 Cog Wheel Brand Pig, c.N.B., f.o.b., Clyde, spot , Sootch pig, No. 1 Gartsherrie... Coltness ... Clyde ... Govan ... Bars, Welsh, f.o.b. Wales ... Plates ... Iron. Bars, Staffordshire, at works... Sheets Hoops
Ship plates, Middlesborough
STEEL: English spring ...
cast ...
Ralls at works, according to section Lead, Spanish er soft foreign English pig, common ... L.B. ... sheet ... bar lead ... patent shot Spelter. Silesian ordinary brands Antimony. Antimony ... 31 10 0 Quickeliver. 8-99 per cent. guarantee 0 1 2

JACKSON GOLD FIELDS .- The news from the mines owned JACKSON GOLD FIELDS.—The news from the mines owned by the Jackson Gold Fields Company continues to be most satisfactory. The development work is being pushed forward on the rich gold reef which has been struck at the 75 feet level. The 60 stamp mill already on the property is ready to crush the ore, and as soon as the cablegram announcing the first crushing is received the market is expected by those in the inner circle of the company to assume a much more favourable aspect,

"THE MINING JOURNAL" SHARE LIST.

EREVIATIONS AND REFERENCES.—The following are the significations of the abbreviations and references which occur in the Share List:—Ay, Antimony; A, Arsenic; Bl, Blende; Br, Borax; C, Copper; D, Diamond; G, Gold; I, Iten; L, Lead; M, Mundic; N, Nitrates; P, Phosphates; Q, Quicksilver; R, Ruby; S, Silver; S-l, Silver; in the mine is conducted on "Cost Book" principles; I in the "Head Office" column of African Mines signifies that the address given is not that of the head office, but of a sub, or transfer office; and i, following the names of African Mines, signifies that they are subject to the Limited Liability Law of the South African Republic.

The following is by far the most complete and comprehensive list of mines, in whose shares business is being currently transacted, published. Additions will be made from time to time as occasion requires. Every effort is made to ensure accuracy, and Secretaries of Companies, Share Dealers, and our readers generally, are cordially invited to co-operate with us to this end, by notifying us of any errors that may at any time occur. We desire it to be understood that, while our Share List will almost invariably be found correct, we do not hold ourselves responsible for any loss or inconvenience that may arise from possible inaccuracies.

	BRITISH MINES.									AUSTE	LALIAN	AN	D NEW	ZEAL	AND	MINES.	
Name .	Closing Price, Aug. 30, 1895	Closing Price, Aug 23, 1896.	Am't. of Share	Latest Dividend	Called up Per Share.	Amount of Stock or No. of Scares Issued.	Situation of Mine.	Head Office	Name.	Ciceing Price. Aug.30,1895	Closing Price, Aug. 23, 1895.	Am't. of Share	Latest Dividend.	Called up per Share.	Amount of Stock or No. of Shares Issued.		Head Office,
Blue HillsCT BotallackT	2/ 4/	7/8/-	*:	2/- May, '81	£ s. d. 5 19 5 51 4 6	5,353 1,880	Cornwal! Cornwall	Camborne. St. Just.	AbbottsG	136 136	15/16 17/16	£ s.	-	2 s. d. 0 17 6	67,000	M'rehison	17, Old Broad st.
Carn Brea	254 234 34 35	2 234 36 36	:	2/6 Dec.,'93	22 8 5 35 15 10	8,000 4,900	Cornwall Cornwall	Carn Brea. Camborne.	Achilles Gld. Fld. Aladdins Lamp G Anglo-Ger. Explor.	3/5 4/ 13/16 11/16 13/6 21/6 pm	1 136	1 0	-/8 July 95	1 00	642,456 100.000 99,030	N.B.Wales W.Austral	Poultry. 4-6, Throg. Avenue. 79, Queen Street.
Devon Gawton CA Devon Ga Cons. CA Doleoath7	par % pm. 1% 1% 19/6 20/6	par ½pm. 29/- 30/- 18/- 19/-	1 0 5 0 1 0	1/6 May '95	0 12 6 2 0 0 1 0 0	25,000 10,240	Tavistock Devon Cornwall	8, Finsbury circus. 8, Finsbury circus. Camborne.	Anglo-Ger, Explor. Assoc. Gold Mines Austin	1 1/4 1 1/4 3/4 3/6 4/ 5/	114 114 36 34 8/ 4/	1 0	-/8 Mar., '92 -/9 Aug. '95	1 0 0	375,000 65,000 210,000	Murchison	23, College hill, EO
Do. Drakewalls CTM	1/ 2/ pm. 2/ 2/3 20/- 25/-	-/6 1/-pm 2/- 2/6 20/ 25/	1 0	=	0 2 0 0 12 6	61,858 12,600	Cornwall Cornwall Flintshire	Camborne. Dashwood House. 67, Lord St., Liverpl.	Australian	2/9 3/3 17/8 20/	3/ 3/6 17/6 ±0/	1 0	1/- June, '91 1/- May '95	7 7 6 1 0 C 0 17 6	18,315 822,708 100,000	S. Austral. N.S. Wales N.S. Wales	15, Old Jewry Chbrs Dashwood House. Hillgrove, N.S. Wale.
SawtonCA	334 4	4 4%	2 10	1/6 Bept, '34 5/- Apr., '92	2 7 3	6,400 12,000 15.000	Devon	Illogan. 20, Great St. Helens.	Bayley's Reward G Big BlowG Blackett's Claim G	134 176	7/6 8/6 196 136	1 0	-/4 Dec. 94	1 0 0	480,000 145,000 55,000	Coolgardie Coolgardie Coolgardie	Blomfield Ho. P.C.
Breen HurthL	9 10	1/6	1 0	-/6 June '89 2/- June, '95	1 0 0	10.000	Omberind Flintshire	Douglas, Isle of Man. Newcastle. Ohester.	Black Flag Bonnie Dundee G Brilliant	214 214 13/6 14/ 11/16 13/16	13/6 13/6 13/6 14/6 13/6 13/6 22d	1 0 1 0 2 0	-/3 Aug. '95	1 0 0 0 18 6 2 0 0	600,600 120,000 250,000	Coolgardie N Zealand Queensind	Winchester House 1, Metal Exch. Bidgs 6, Gt. St. Helens Charters Towers.
Do.Dis. Mn. Drain	334 44	10 11 5% 4%	5 0	5% Aug. '95 2/ 95	5 0 0	19,000	Flintshire, I. of Man	CornEx.Cmb, Chestr, Chester.	Brilliant BlockG Brilliant,St.Geo.G Brit, Brok, Hill 5 Brit, Broken Hill S	1 1/1 2 1/16 13/4 2 1/6 2/	11/16 13/16 Z/16 115/16 Z/16 176 21/4xd 1/6 8/-	10/10	9d. Aug. '95	1 0 0 0 0 0 0 0 0 0 0 0	70,000 72,000 240,000	Queensind Queensind N.S. Wales N.S. Wales	3, Gracechurch-st. Charters Towers. Dashwood Ho., E.C. Dashwood Ho., E.C.
eadhillsL	10/ 12/ 36 136	12/ 13/ 76 156	6 0	1/6 Nov.,'94 3/- Hep.'92	5 11 6	8,000	Cornwall Lanarksh.	Truro. 30, Finsbury-circus.	Broken Hill Prop. S Caledonian G	1% 1% 3/6 4/6	1% 1% 3/6 4/6	1 0	1/- Bept. '85	0 8 0	960,000	N.S. Wales W. Austral	Portland House.
danarmon	par par 5 5%	par par 5 516	1 0	4/- Nov., '94 1/3 Nov., '91	1 0 0 0 15 0 11 9 8 1 16 7	21,990 3,790 2,500 7,165	Denbigh Flintshire Cornwall Wendron	S, Werburgh Chmbrs Chester, Penzance, 3, Gt. Queen-st., S. W.	Cashman Bril G Cassidy Hill G	11/ 12/ 1/30 %/a 3/4 3/6	11/- 12/- Via %in % 1	12/6 1 0 1 0	Ξ	1 60	100,007 55,128 115,000	Queensind Coolgardie W.Austral	9, Tokenhouse Yard Winchester House, 4, Picardy Pi., Edin
enthdaTndie.LZ ewCooksKitn,TC	3/6	3/6	5 0	5/6 Mar. '90 8 % Feb., '91	0 18 0 10 18 3	9,000 48,805 4,900	Denbghsb Sthumbid Cornwall	Minera, N. Wales. Newcastle on-Tyne. Camborne.	Central Boulder G Do. Exp. of W.A. Chaffers	136 136 236 276 5/9 6/3 2/ 2/6	17/18 19/18 29/18 21/18 6/- 6/6	1 0	Ξ	1 00	100,000 122,000 300, 00	W. Austral W. Austral W. Austral	20, Bucklersbury. 2, Met. Exchg. Bldg 85, London Wall, E
forth HendreLZ homix United IC	1/8 2/-	1/8 2/	1 0 2 10 1 0	1/- Oct., '92 8 p o year 81 1/- Mar. '90	1 0 0 2 10 0 1 0 0 7 4 6	30,000 11,854 5,000 10,665	N. Waies Flintshire Lianrwst Cornwall	6.Queen-street-place. 11, Nwgt. st., Chstr. Billiter sq. buildings Liskeard.	Do. Consolid	2/ 2/6 1/9 2/3 1% 1% 1% 1%	136 136	10/	=	0 9 0 0 8 8 1 0 0 0 5 0	200,000 300,000 90,000 100,000	Queensind Queensind W.Austral Cool.W.A.	110, Cannon Street 110, Cannon Street 151, Cannon-st. E.C Broad Street Avenue
hosemorL	34 1 par	16/ 17/ par	1 0	10 p e Sept. 91	3 7 9	1,070	Cornwall Flintshire	37, Walbrook. CornEx.Cmb.Chestr.	Coolgardie Gold Coolgardie Min. G Do. Mint & I. Kg. Coolgardie (Shriws)	17/6 19/16 21/6 22/6	-/9 1/3 19/6 111/16 19/6 11/16 1 13/6 3/- 4/-	1 0 1 0 1 0	30 % June 95	0 0 6 1 0 0 0 6 0	40,000 150,000 250,000	Coolgardie Coolgardie Coolgardie	Winchester House. 30. S. Swithin's In. Broad Street Avenue
c. Condurrow TC onth Crofty TA Prances Untd. T	2/ 3/ 3/ 3/ 1 13/	par 2/6 7/6 16/ 17/ 36 11/6	1 0	3/6 Apr. '93	0 19 0 7 17 6 17 10 6 2 7 6	18,000 8,123 5,769 6,000	Flintshire Cornwall Cornwall Cornwall	CornEx.Omb.Ohestr. 20, Great St. Helens Pool, Cornwall. Redruth.	Con. Murch ison Craven's Cal G Crown Bayley's, G Cumbrind (New)G	3/ 4/ 1/16 1/16 1/16 1/16 pm 2/6 3/-	3/- 4/- 1/2 36 pm 2/6 3/-	6/	-/3 June 94 2/6 Dec, '87	0 4 8 0 10 0 0 19 0	100,000 80,000 184,890	Murc., W A Queensind Coolgardie Queensind	Broad Street House 30-1, S. Swithin's-le Bishopsgate Ho. E. Blomfield House, E.
outh Halkyn	par	par	1 0	=	0 7 0	10,000 30,003	Flintshire Flintshire	8. Werburgh Chmbrs 8. Werburgh Chmbrs	Day Dawn B.AW.G Day Dawn P. C. G	9/8 10/6 4/6 b/	\$/8 10/6 4/9 5/3	1 0	-/6 Mar. 93 -/6 Apr. '92	1 00	498,400 490,000	Queensind Queensind	3-5, Gracechurch-st Winchester Ho., E.
increft	814 814 8/9 1 114	8% 8% 8/9 13% 13%	4 0	2/- Aug. '94 1/3 Oct. '90 2/6 May, '89	0 16 0 15 7 6 1 10 0 17 1 7	20,000 8,000 50,000 8,144	Flintshire Cornwall Durham Cornwall	84. Forgate st., Chate Carn Brea. 3, Lombard-court. Camborne.	Emerald	3/3 3/9 34 34 3/4 3/4	3/8 4/-	1 0	-	0 18 0	120,000	Victoria W.Austral	30-31, S. Swithin's l
Tost KittyT Theal AgarTA Theal BassetTC	434 534 36 36 234 234 27 276	5 514 3/- 5/- 214 214 1/9 2/3		2/- Dec, '94 2/6 Aug.' 88 10/- Apr.'88	1 2 0 23 15 2 12 3 0	6,000 6,000 6,144	Cornwall Cornwall Cornwall	37, Walbrook, Redruth. Redruth.	Empress Coolge. G Eng. & Aus. Cop. Cu Explorers Synd	1% 1% pm	1 10% pm	2 0	2 % 1883	0 10 0 1 17 6 1 C 0	90,000 70,000 9,000	B. Austral.	2, Tokenhouse bldg 136, Palmerston-ble Copthall House
Vheal FriendlyT Vheal Gronville T Vheal KittyT Vheal Metal &F.T	13 13 13 14	1314 1414		3/- July, '95 3/- Mar. '88	0 12 9 18 2 0 4 5 6 0 13 9	10,000 6,000 8,590 10,784	Cornwall Cornwall Cornwall Cornwall	110, Cannon-et., E.C., 7, Union-court, E.C. Truro. 14, Broad-street,	Glenrock G Goleonda G Golden Link G	2/3 2/9 136 136 136 136	2/- 2/6 136 136 136 136 2 256	1 0	Ξ	0 8 0 1 0 0 1 0 0	225,000 68,086 90,000	N.Zealand Murchison W.Austral	3-5, Queen-st. E.C. Winchester House Dashwood House
,	1]				1		Do. CrownG Do. PlumG Gold Estates Great BoulderG	354 234 35 1 254 254 576 654	2 254 76 1 136 176 436 176 x6	1 0 1 0 1 0	3/ Sept. 95 2/- Aug. '95	1 0 0 1 0 0 0 10 0 1 0 0	100,000 120,000 80,000 119,330	W.Austral W.Austral W.Austral Yilgarn	54, Old Broad Stree 4. Bishopsg te Stre 42, Gresham House 3, Gracechurch st.
			EUR	OPEAN	MINES	3.	1	1	Great Coolgardie Great Fingall Rfs.	13/, 2 19/16111/16 pm	136 156 1 136 pm	1 0	Ξ	1 0 0	85,000 175,000 50,000	Coolgardie Kurnalpi W.Austral	3. Budge Row. Boad Street House 13-14, Abchurch is
valaQ	76 136 0 36 536 534	34 34 0 36 534 534	1 0	-/6 April '95 1/- May '93	1 0 0	35,000 51,584 55,200	Spain	4, Tokenho. Bidgs.	Gresham SyndGolden GateG Hampton GoldHill Hampton Lands	76 1/6 3/3 3/9 634 7	1/3 1/9 3/3 3/9 636 636 x6	10/	10/- Ang: '95	0 10 0	150,000	W. Australi Coolgardie	9, Tokenhouse Yas
nglish Cr. Spelter	36 36	30 36		5/- July 94 2%% Aug.'94	1 00	84,000		19, Grey-st., N'castle 9, Queen-street-place	Hampton Plains Ex Hampton Plains Ex Hannan's Brwn Hil	836 7 436 436 1:/ 19/ 436 436	13/ 14/ 31/ 31/	1 0	=	1 0 0 0 18 0 1 0 0	300,000 180,000 65,000	Coolgardie Coolgardie	29, S. Swithin's la Suffolk House, E.C Broad Street House
thiola	3% 4	3% 4	5 0	1/- April '95 4/6 Apr. 95	5 0 0	25,000 50,400	Spain	6, Queen-street-place Dashwood Ho., E.C.	Hannan's Star G	176 2 14/ 15/ 5/5 6/6	15% 17% 14/- 15/- 5/6 6/6	2/6	1/ Bept. '95 -/2 Dec. 94	0 2 6	250,000 143,439	Coromndi.	Winchester House Dashwood Ho.; E. Copthall House.
inaresL	434 5 274 334	436 436 236 336	3 0	4/6 April '95 2/- May. '94	3 0 0	14,998	Spain Portugal	6, Queen-street-place 87, Cannon-street.	KaboongaG KangariliaS		2/6 3/ 5/- 6/-	10/	=	0 9 9	249,250 87,938 249,760	Queensind Bo. Austral	70-71, Bishopsgate 68, Coleman stree
estarenaG ontgibaudSL	6/ 7/	6/ 7/	3 0	 11/8 Dec. '84	3 0 0 20 0 0	67,809 14,000	Italy Coueron	6-7, Queen-street-pl, 6-7, Queen-street-pl,	KapangaG KinsellaG KintoreG	1½ 1½ par ½ p.m	13/- 12/9 1¼ 136 36 ¼ pm	1 0	-/6 Jan. '91	1 0 0	80,000	Murchison W. Austral	
io TintoC	17% 18%	17% 18%	10 0	5% July, 95	10 0 0	325.000 £1892,740	Spain	30, St. Swithin's-lane	Lady Loch Lady Mary Amalg.	13/16 15/6 13/6 15/6 23/6 23/6	15/6 15/6 15/6 15/6 15/6 15/6 15/6 15/6 15/6 15/6	1 0 1 0	=	1 0 0	70,000	Coolgardie Murchison	Throgmorton Hos
o. (2nd do.) o. (3rd do.) apanji	2/6 3/6	2/6 3/6	100 C 100 C 1 0	5 p.e. Apr. 93		£1024,860 £5:7.080 95,000	Spain Spain Servia	30, St. Swithin's lane	Lindsay	154 136	56 76	1 0	_	1 00	65,000	O oolgardie	Copthall House
harsis	534 534	534 534	10 0	4/- May, '95 8% July 95	10 0 0	625,000 365	Spain	Walbrook Ho., E.C.	Londonderry G L.& W. Aust. Expl. Do. Founders Lon. W. A. Invest.	534 534 163 180 234 234	34 5 ta	1 0 100 0 1 0	70 p.e. Dec, '94	1 0 0 1 0 0 100 0 0	467,000 100,000 1,500 100,000	W. Austral W. Austral	Broad Street Ho.
Vest Prussian Pre. Vest Prussian Or. VohlfahrtL	=	=	10 0	87 July '95 87 July, '95 37 Dec. '94 37 Dec. '94	10 0 0 10 0 0 1 0 0 0 10 0	5,450 14,050 99,634 9,090	Germany Germany Prussia	Walbrook Ho., E.C. Walbrook Ho., E.C. 17, Victoria et., 8, W. 17, Victoria et., 8, W.	Do, Founders Mainland Cons. G	31/4 31/4	21/16 29/16 50 55 213/16 31/16	1 0	-	1 0 0	150,000	W. Austral Murchison	Broad Street House
		MORT	т /	AMERICA	N MI	NT IPO			Mawson's Rewrd. G Menzies Gold Reef Milis' Day Dawn G	13/10 15/10 13/6 23/6 13/6 13/6 xd	13/16 13/16 23/14 23/16 13/1 13/16	1 0	-/6 Aug. '65	1 0 0 0 15 6	60,000 175,000 300,000	W.Austral W.Austral Queensind	28 & 29,8.5 wi hin's 25a, Old Broad Str. 3, Gracechurch-st.
laska MexicanG	11/ 11/	1% 1%	95	7 1-5d. July,98	25	160,000	Alarka	20 84 8-111-1-1-	Mount Morgan G Murchison Gift	5/6 6/6 2% 2% xd 4/ 5/ 10/ 11/	234 274 xd		-/6 Sept., 95	0 19 0 0 17 6 0 10 0	155,0.0 1,000,000 120,000	N.S Wales Queensind Murc. W.A.	3. Gracechurch-st. 9. Gracechurch-st. 11. Q. Victoria-st.
laska Treadwell G lmada and T S merican Belle S	13/2 13/2 45/2 45/3 -/5 -/9 1/3 1/9	436 436 -/6 -/9 1/3 1/9	\$25 2/6 1 0	1/6 July, '95 -/8 Mar. '91	\$25 0 1 10 1 0 0	200,000 351,008 398,890	Mexico Colorado	30, St. Swithin's-in. 6, Queen-street-place 25A, Old Broad-street	Murchison Gold M'rebis'n N, Ch'm N, Australian G. F.	1% 1%	10/ 11/ 1½ 1½ 136 36	1 0	-/6 June, '95	0 5 0 0 19 6	400,0 0 160,000 20,000	Mure.W.A.	
nglo MexicanS lizona (Pref.) Cu Do. 6% A Deben. Do. 7% B Deben.	63/3 63/9 107 99	61/- 61/6 107 99 99%	5 C 4 0 100 0	3/- Jan. '90 1/- July '95 61/2 May '95 7% May '95	5 0 0 4 0 0 100 6 0 100 0 0	74,850 158,920 £135,300 £181,300	Mexico Arizona Arizona	74, Geo, st , Edinbor	New QueenG North Coolgardie N. Q'ld. M.Agency	8/- 9/ 1/6 2/- 23/10 23/10	8/ 9/ 1/6 2/- 2½ 2%	5/	-/6 Aug. 95	0 19 8	158,915	Queensind Pilharra	30, St. Swithin's-
LamarG8	11/5 13/6 2/ 2/6	21/ 6 22/6 2/3 2/9	1 0	1/- Aug. '95	1 0 0 0 19 9	400,000 420,000	Idaho		Pilbarra G. F	1% 2	17/14 19/14		30 % Aug. '95	1 00	100,000	Queensind Pilb, W.A.	
kborn	5/9 6/2 1/- 1/3	5/- <i>e/</i> - 1/- 1/3	1 0	-/3 July '95	1 0 0 0 0 0 0	175,007 403,618	Montana Utah	6, Draper's-gardens. 15, Geo-st. Mansn. Ho	Queen's Bthdy Un. Ramage Syndicate Royal Oak	236 3 3/6 4/	234 3	1 0	=	1 0 8	50,000 50,000 200,000	W. Austra N. Zealanc	
n. M'g. Assoc, olden Peather G olden GateG	61/4 7 3/4 5/4 3/8 4/8	6 % 7 % % % %	5 10 1 0 1 0	14/- Apr. 95	5 10 0 1 0 0 0 19 6	27,469 180,000 79,600	C. Breton California California	St. Stephens Cs E.O	Do. Do	134 136 36 dis par.	1 1% % dis par	1 0	=	0 10 0	60,000	Coolgardie	8, Old Jewry, E.C. 8, Old Jewry, E.C.
olden Leaf G	3/- 3/5	2/9 3/3	1 0	-/8 Oct., '94	1 00	300,000	Montana Arizona	8, Draper's Gardens. 8, Draper's Gardens.	Bam's With of Nat, Boottish Australian Bootty's Hauraki Bo, Londonderry	5/9 8/3 36 34 4/ 4/6 7/8 8/6	5/6 6/- 36 34 8/ 9/	1 0 5/ 1 0	-/3 Aug., '95	0 18 0 0 2 0 0 19 0	400,000	N. 8 Wales N. Z-aland Cool, W A	Winohester Ho. E. 5, Drapers garden
olcomb Valley G	3/- 3/6	2/- 2/8	5/	-	0 5 0	540,00C 408,635	California California	14, Cornhill, E.C.	Town Prop. of W A	36 36 pm	1% 1%	1 0	-	1 0 0		W.Austra	28-9, 8, 8#ithin's
ackson Goldfields av Hawk (New)G a Plata	1/- 2/-	2/3 2/9	5/	-/8 Dec. '92 1/3 Oct. '82	0 19 3	405,000	Montana	11. Poultry, E.C. Deshwood House, 11. Poultry, E.C.	Victory G	734 736	5/6 7/6 7 7%	5/	-/3 Hept., '95 -/3 Mar., '94 2/- Sept. '95	0 50	181,000	N. Z:a'and	32, Gresham-st., I
A Yesca	3/9 4/3	1/ 1/6	1 0	=	1 0 0 6 0 0	400,000 10,000	Pnal, Aris. Mexico	20, Bucklersbury, EO 257, Winchester Ho. Dashwood Ho., E.O.	Waite Kauri	34 34	8/- 9/-	10/	=	1 0 0 0 10 0 0 10 0	130, 00	N. Z aland	11, Abch sen is.E. 11, Abch sen is.E. 43, Threadneedle
lesq. d'l Oro (D) G	9/8 10/6	10/6 11/6	5 0	-/3 July '95	5 0 0	10,000 657,158	Mexico . Montana	Dashwood Ho., E.C. Gresham House, E.C.	Wentworth Exten.	1 156	15/10 15/10 X		1/- Aug '35	0 5 0	500,000		4-6, Throgmort, A
ew Colorade8 Gold HillG ew Guston8 ew Hoover HillG	2/6 3/ 54 74 -/6 1/-	2/8 2/- 36 36 -/6 1/-	1 0 1 0 10/	1/- Oct. '92 -/8 Dec. '85	0 19 6 0 19 9 1 0 0 0 10 0	34,503 191,045 110,000 120,000	M Caroline Colorado M Caroline	25A. Old Broad-st.	W. Argentine G W. Aust. G.Concer W. A. Es. & Fin. Do. Found. Deb.	2 234	1/- 1/8 1% 254 4 434 50 60	1 0 1 0 10 0	20 % May '95 2/- May, 95	1 0 0	17,500	W. Austra	33, Old Broad st., 54, Old Broad-stre
almarejo G8 inosaltos(Df)GS	2:9 3/3 36 %ia	2/9 3/3	1 0 1 0 1 0	-/0 Mar.' 90	1 0 0	418,888	Mexico	4, Copthall-building	W. Aus. Expland F. W. Australian G.F. W. Aust. Mining	836 7	334 4 634 634 8/8 9/-	1 0	2/- May '95 5/- Aug., 95	1 0 0	105,008 85,003 104,141	W. Austra Goorge: die W. Austra	15, Austin Friars. 28-29, S. Swithin's 757, Winchester H
lehmond GSL	% % % 134	76 1 96 136	5 0	1/- Nov. '94	5 0 0	80,000	Mexico		W. Aust. Pioneer. Do. Founders White Feather Do. United	254 274	40 45 25/10 23/10 1 13/4	1 0	=	0 13 0 45 0 0 1 6 0 3 0 0	80,000	W. Austra W. Austra Goolgas die	1 139, Cannon-street
lerra ButtesG lo. Plumas Eur. G pringdaleG	2/- 2/- 2/- 2/-	167 117 168 910	2 0 2 0 91	-/8 Apr. '95 -/9 Apr. '98 84 Aug., 94	8 0 0	122,500 140,265 1.000,000	California California Colorado	138, Leadenball-st.	Zapopan	8/- 8/8	6/3 6/9	1 0		1 00	83,000		70,Bishop-gate-st
		13/ 136	1		1		4		- weeks atonians	-		1 1	/ 4 DEAY 95	1 1 2	18,60	A REPORT AND A	I II. MURREY Victoria

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"THE MINING JOURNAL" SHARE LIST—(Continued)

SOUTH AND	CENT	TRAL A	MERIC	CAN	MINES.				AFI	RICA	N MINE	S-(Con	tinued).	19121	131111
Mame. Closing Price. Aug. 30,1895 1805.		Latest Dividend.	Oalled up Per Share.	mount of Stock or No. of Shares Issued.	Situation of Mine.	Head Office.	Name.	Closing Price, Aug.30,1895	Closing Price. Aug. 23, 1895.	Am't of Share	Latest Dividend.	Called up Fer Share.	Amount of Stock orNo.of Shares Issued.	Situation	Head Office.
Angio-Chilian Pf.N 9 914 9 914 Bo. 5% ByletMB 107 109 107 109 Antio. (Pref.) G.S.	10 0 13 100 0 6 1 0 -	7/11 1-5 Jun 95 8% July, '95 -/6 Mar. '90	10 0 0 100 0 0 e	35,000 2200.000 22,823	Antofaget.	123, Bishops,-st. W, 123, Bishops,st. W.	Forreirs		18 1816 16 14	1 0	13/ Sept. '95	1 0 0	45,000 105,000	Rand De Kaap	120, Bishopsgt st. Wall 45-6, Leadenhall-st.
Antioquia (ording) 1/8 2/- 1/- 1/8	2/6	1/- Apr. 94	0 2 6 1,	42,453 ,330,000 125,000	Colombia Colombia Venezuela Peru	184, Gresham Ho. 184, Gresham Ho. 57, Moorgate-st. E.C	Geldenhuis DeepG Geldenhuis Est. G Do. Main Ree!	10% 10% 6% 7 111/16 111/16	10% 10% 813/16 813/16 10/16 111/16	1 0	30% July'95 5% Aug., 95	1 00	265,000 187,500 150,000	Transvaal . Rand Rand	30,8t. Swithin's lane. 120, Bishops gt st. Wnf Warnford Court, E.O
Colorado MitN 11/11/11/11/11/11/11/11/11/11/11/11/11/	5 0 4	/- May, '95 0 fre. Aug. 94	0 40 1	32,000	Colombia Chili Venezuela	52. Leadenhall street 5,Copthall-bdgs., E.O 12, King-st., Liverp'l Cludad Bolivar.	George Goob G	311/2 311/2	35/16 31/16 35/16 31/16	1 0	Ξ	1 0 0	112,750 100,000 130,000	Rand Rand Drietfon .	7, Great St. Helen's, Johannesburg. Warnford Court, E.C?
Colombian Ry C 21/4 21/4 21/4 21/4 21/4 21/4 21/4 21/4	1 0 1 2 0 1	/- July, 95 /6 May 95	1 00	75,000 100,000 49,553	Colombia Chili Colombia	10, Blomfield-stre t Dashwood House, E. C Manchester.	Ginsberg	8/ 8/6 % 11/16	7/8 8/6 7/8 8/6 9/4 11/16 9/4 9/4	1 0	15 pc June 95 15 % Dec. 89	0 10 0	130,000		2, Drapers-gardens, 11, Queen Victoria-st 46, Queen Victoria-st
Dou Pedro		%d Feb, '94 1/- Aug. '95	5 0 0 1	30,000 133,102 257,600 128,662	Colombia Brazil Venezuela Colombia	Manchester. 24-5, Devonsh.CeE.C 8, Bishopsgtst, Wn 184, Gresham House	Gld. Fis. DeepG G.F. of Lydenb'rg G.F. of Mashonic G.F.Tierrad' Fuego	7% 7%	9% 9% % %	1 0	Ξ	1 00	200,000	Eydenb'rg Mashonld, Mozambiq.	8, Old Jewry. 19, St. Swithin's In. 2, Tokenhouse Bidgs
Glenrock	1 0	Ξ	0 18 6 1	199,948 100,000 120,000	Arg. (& I.) Colombia Honduras	3-5, Queen-street, E.C 10, Blomfield-street 14, Unionet, Old Brd	Grahamstown G Graskop	11/3 11/9 8 834		5/-	14% Mar. '91. 2% Sept. '94	1 0 0 0 5 0 10 0 0	150,000 400,000 105,700	Raud Lydenburg Fransvaal	85, Gracechurch-st. 62, Lombard-street
HuanchaeaS -	5 0 4	/- Bept, '94 8% Z '91		320,00G 105,234	Bolivia Nicaragua	10, Avnu. d'Alms, Paris	Guy Fawkes G Gwelo Exploratn. Harmony (Pref) G Henderson's Tran-	15/ 16/ 5/ 5/6 8/ 9/ 4% 53/6	5/9 6/3 9/9	10/-	=	0 10 0 0 10 0 1 0 0	24,000 260,000 250,000	Matabeleld	Broad-st. Arenue 18, Bishopsgate st. 79%, Gracechurch-st. 85, Gracechurch st.
Javali Taltal	1 0	p.c. Dec. 94	5 0 0 1	120,000	Chili	139, Cannon-street. 79¼, Gracechurch-st. 3, Gracechurch st;	Henry Nourse G	756 776 1/10 9/10 6/6 7/	634 634 %a %a	1 0	-	1 0 0	57,404	De Kaap De Kaap	Warnford-court. 21, Mineing Lane.
Liverpool	5 0 1	7/6 June 95 15/-May, 95 /4% Nov. '89	1 0 0 3	300,000	Chili Colombia Chili	70, Graceshurch st. Liverpool. 5, Copthall-building. 9, Gracechurch-st	Johannesburg G.F. Johannes. Invest Johannesburg Par Jabilee	636 636 74 8	8 814	1 0	10 p c Sept. 95 2 4 % Nov'33 30 % July '95 25 % Aug. '96	1 0 0 1 0 0 1 0 0	99,537 650,000 21,000 30,000	Rand	31. Lombard st., E.C. 7. Lothbury. Johannesburg. 8. Old Jewry.†
LoudonNit.(Frei.) 3% 4 3% 4	0 8	% Nov. '94	0 2 0 2	200,000	Peru	9, Gracechurch-st 11, Old Broad-st.E.C	Jumpers	1 156 pm	7¾ 8 1 1¼ pm	1 0 1	25% Aug. '95	0 10 0	98,672 125,000	Rand Kim berley	120, Bishops zt st. Wn! 19, Finsbu y olrcus.
Do. 8 % Coum Pret 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2	1 10 8 1	1s. Dec. '94 p.c. Feb, '95 p.c. Aug. '95	1 10 0 1 1	130,000 130,000 260,000	Tarapaca Tarapaca Tarapaca	50, Mme-street, E.O 50, Lime-street, E.O 50, Lime-street, E.O	Kimberley Rdpt Klerksdorp KoffyfonteinD	25/ 28/ 1 15/6	31/4 31/4 27/6 28/6 15/10 1:/10	10/-	Ξ	1 0 0	125,000	Klerksdorp Jacobsdaal	2, Drapers-gardens, 110, Cannon St. 120, Bishopegt st. Wo
Orita	1 0 1	/- April '89 /- Aug. '95	1 00		Colombia Brazil	10, Blomfield-street. 6, Queen-street-place	Lionsdale	811/16613/16 4 434 9/6 10/6 13/8 14/6	6% 6% 3% 3% 9/3 9/9	1 0 1 0 2/6	5 p.c. June'95 5 % Sept. '93	1 0 0 1 0 0 1 0 0 3 2 6	470,000 100,000 115,900 889,233	Rand	59, Holborn Viaduet 2. Drapers-gardens. 35, Gracechurch-st.
Pao. & Jaspampa N	3 0 5	/- May, '95 0 % Oct. '89 1% Mar, '92 5/- Aug, '95	8 00 2	40,000	Tarapaca Chili Venezuela Chili	3, Graceshurch-st. Liverpool. 38, Nicholas Lane. 57%,OldBroad-street	London & S. A. Ex. Lower Roodepoort Luipaards Viei Est	13½ 13¾ 6/6 7/6 31/ 33/	13¼ 13¼ 6/6 7/6	1C/ 1 0 1 0	8/- Mar. '95 6% Mar, '90	0 10 0 1 0 0 1 0 0	100,000 150,000 319,003	8. Africa Viakfontn Rand	110, Cannon-street 19, Finsbury-circus. 8, Old Jewry, E.O. Warnford-court. I
Do. Huara Deb Serp 106 109 106 109 st. John del Rey G 134 134 154 154 154	100 0 5	Z April '95 1 Z July, '95 1 Z June '82	100 0 0 22	475,000 200.000 323,090	Chili Chili Brazil	57%,OldBroad-street 57%,OldBroad-street Fineby.Ho.,Blmf'd st	Main Reef (New)G	21/6 8 M 11/10 4 M/10 13/4 2	215/10 21/10 315/10 11/10	1 0 1 0 1 0	=	1 0 0	111,600 100 000 180,000	Rand Mashonald Mashonald	15, George St., MnH 8, Old Jowry, E.C.
Ban Pablo	5 0 13	/6 May, '95 2/6 May '95 % % Nov., '94 /3 Dec. '86	5 0 0	75,000	Chili Chili Chili Brasil	12, King-st., Liverp 9, Gracechurch-st. Gracechurch-st Liverpool	Do. Central Do. Gold Fields Massi Kessi Matabelel'd G. R'f	8/1 9/6 5% 5%	7/- 8/-	10/	Ξ	1 0 0	200,000 60.012 110,000	Mashonaid Manica Matabelei'd	8. Old Jewry, E.C. 19. St. Swithin's-in. Broad Street Avenue 3. Copthall-buildings.
Santa Elena	5 0 10 5 0 5	5/- Oct. '94 0/- May, '95 5/ May, '95	5 0 0 5 0 0	20,000 20,000 29,000	Tarapaca Chili Chili	3, Gracechurch-st. DashwoodHouse, E.O DashwoodHouse, E.O	May Con. (New) G Metropolitan (N) G Meyer & CharlG	24/16 31/16 11/2 71/3	21/10 21/10	1 0	10 p c Apr. 95	1 0 0	75,020 71,687	Rand	4, Lothbury. I 1, Orosby Square. I 120, Bishopsgt-st. Wn I
8agor a	1 0 10 1 0 10 5 0 10	0% July '95 0% July '95 0/- July, '95	1 0 0	10,000	Colombia Colombia Colombia	5. Coptha'l-buildings 23. St. Swithin's In. 23. St. Swithin's In. 18. Finsbury-circus.	Middleburg Coal Minerva	15 % 15 % 15 % 2 % 196 1 %		1 0	3/- Feb. '90	1 0 0 1 0 0 1 0 0	70,000	Rand Band De Kaap	4. Drapers-gardens. Warnford-court. I 65, New Broad-street
Burren "A" 5 794 8 2 734 8 2 7 7 7 7 7 7 7 8 2 7 7 7 7 7 7 7 7 7	5/ 1/	0/- July, '95 _	0 50 2	8,000	Venezuela	Broad-st. Avenue.	Moodles G.&E,G Mosambique	296 2%	23/14 25/18	1 0 1 0 2 0	2/8 July '91	1 0 0	240,000	De Kaap S.E. Africa	8, Old Jewry.† Broad-street House, 34, Leadenhall-blds.
-	1 1	D ASIAT	- 1	- '	Bingo.Dm	110, Cannon-street.	NamaquaC New African Sew Ariston N.Belgium Land	136 136 836 9 136 136 187 137	8 2 8 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 0	Ξ	1 6 0	190,000 29,180 167,462	Klerksdorp Waterberg.	88. Matton Garden. Winchester House. 33, Cornhill.
Asia Minor Pref. St	10/	-	0 10 0	42,430	Asia Minr	2, Metal Ex. Bldgs.	New Chimes G New Clewer Estate Comet G	1% 1% 1% 1% 1% 3%	313/10 31/10	1 0	15 pc Aug. '95 10 % Feb. '95 5 % Aug. '92	1 00	175,000	Heldelburg	8, Old Jewry, B.C. 120, Bishopsgt st, Wn I Winchester-house, 120, Bishopsgt.st, Wn
Do. Ord 2/ 3/	10/	=	0 10 0	59,838 159,945 298,551	Asia Minr India Burmah	2, Metal Ex. Bldgs. 8-7, Queen-street-pl. Suffolk House E C.	New GordonD New HeriotG New JagersiD	11% 11% 10% 11	1136 1136 10% 1036	5 0	5 % Aug. '92 5 % Dec. '89 5 p c Sept. 95 10% Mar., '95	1 0 0	404,344 88,750 100,000	Griqualand Rand Transvasi.	110, Cannon-street. 98, Gresham Ho EO 5, Copthall-buildings
Champion Reef G 411/16413/16 x 43/4 47/6 Celar Central G 1/3 1/9 1/3 1/9	1 0 4/	- Bept. '95	1 0 0 2	00,000	India	6-7, Queen-street-pl. Dashwood Ho., E.C.	N. Kleinfontein G New Louis D'Or., G Midas New Primrose G	3/- 3/3	-1 -10	1 0	236 pc Mar, '95 	1 00	150,000	Mid'ie Vlei Rand	Winchester House. 53. New Broad-street 120. Bishopsgt-st. Wn 2. Draper's-gardens.
GoldFideMysoreG 25/16 1 19/- 21/-	1 0 1/	- July '91			India	6-7, Queen-stplace 6-7, Queen-street	New Rand	218/14 31/4	36 pm 456 434 13/6 14/6	1 0 1 0 1 0	Ξ	1 0 0 1 0 0 0 19 6	110,000 160,000 299,137	Rand	Bartholomew-house Warnford-ct., E.O. 30-1, St. Swithin's-In 24, N. John-st., L'pl.
Hyderabad Dec 436 456 436 436 436 Eempinkote GdFd 2/3 2/9 2/3 2/9	5 0	_			Deccan	18, St. Helen's-place 8-7, Queen-st:-Dlace.	New VirginiaG	2/- 3/ 736 7%	2/- 3/- 3/- 3/- 136 756 x rts	1 0	10% June '95	1 0 0 0 10 0 1 0 0	125,000 48,335 160,000	Transvaal .	18, Bury Street, E.O. 26, Budge-row, E.C. 96, Gresham Ho., EO
Mysore	1 0	/6 June '95	0 18 0 1	100,007	India India India	8-7, Queen-street pl. 2, East India Avenue 8-7, Queen-street-pl.	Wigel Deep(a)	8/- 8/6	8/6 9/-	1 0 1	10% June '96	0 10 0 1 0 0 1 0 0	200,000	Rand	8, Old Jewry. Basing House, B.O. 88, London Wall. 120, Bishopgt, -st., Wn.
Mysore West(N)G Nysore Wynard G 17/- 18/- 17/- 18/-	1 0 10/		0 19 0 1	27,408	India	Dashwood Ho., E.C. Dashwood Ho. E.C 6-7, Queen-street-pi.	Oceana Oceana Develpmnt		1% 13%		15/- Nov.'89	1 0 0	328,000 50,000	Fransvaal .	4. Sun Court, B C 4. Sun Court, E.C
Nundydroog G 1% 2 1% 2	1 0 1/	6 July. '95	1 0 0 2	000,000	India	6-7, Queen-street-pl.	Ophir Concess Orange F.S.ED Orion	4% 5% 4% 476 3/ 4/	4% 1% xd		10 % Aug., 95 10 % July, '95	0 18 6 1 0 0 1 0 0	30,000	OrangeF.S.	31, Lombard-street. 10, Moorgate-street. 8, Old Jewry. 110, Cannon-st., E.C.
Ocregum (Df.O.) G Do. (10 Z Pref.). Do: (10 Z Pref.). Do: (10 Z Pref.). 311/16 318/16 X 314 314/16 X 314 314/16 X	1 0 2	/- Aug. 95	1 0 0 1	145,000 107,011 12,989	India India India	5-7, Queen-street-pl. 6-7, Queen-street-pl 6-7, Queen-street-pl.	Paarl Central G	27/a 20/a 15/a 215/a 10/6 11/6	111/16 113/16	1 0	1/- Jan. 95	1 0 0 0 10 0 0 10 0	138,750	Transvaal . S.E. Africa	120, Blehopsgt st. Wn. Broad St. Avenue. Broad St. Avenue.
Pahang Kabang T : 1/16 % 16 1/16 % 16 1/16 1/16 1/16 1/16	1 0	_		84,292	Malay Pn. Pahang	4a, Jeffrey's sq. E.C 15, Copthall Avenue	Piggs Peak 6 Piggs Peak 6 Pleiades	13/6 15/16	11/10. 15/16 11/10. 15/16	1 0	=	0 17 6	200,000 80,652 140,000	Swazielnd . Swazielnd . Black Reef	6. Queen-street-place 6. Queen-street-place
Terrakonda6 1/6 2/6 1/6 2/-	4/	-	- 1	187,491	Mysore	8-7, Queen-street-pl	Princess Estate G	7/- 8/- 436 436	19/- 11/-	1 0	Ξ	1 0 0	193,325	Transvaal .	19, Bury-st., E.C. 17. Basinghali Street 33, Cornhill, E.C.
	1	CAN MI					Rand Mines G	2% 2% 315/16 41/16 38 % 28% 2% 25%	33/4 3/4	1 0	S p o Aug. 95	1 00	332,708]	Rand	15, Geo. St., Mn. Ho. 59, Holborn Viaduot. 120, Bishopsgt st. Wn J 123, Bishopsgt-st Wn
Abereorn Reef G 1/8 3/- 1/3 1/6 Abboth's Con. Reefs 1/5 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6 1/6	1 0	-		30,000	Millwood De Kaap Mozambiq Mozambiq	16, Tokenhouse Yard Broad Street Avenue. 11, Poultry. 11, Poultry.	RobinsonD	18 1836 4 436	1% 2% 4 4% 16% 17% 3% 3%	0	0 p.e. July'95	1 0 0 1 0 0 1 0 0	50,000	Fransvaal . Mt & Mash'l	19, Finsbury circus. 8, Old Jewry. 8, Prince's-treet. 28, Austin Friars, E.O.
De. Estates 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37/16 37	1 0	Ξ	0 16 6 3	38, 00	Middlebrg Middlebrg Middlebrg	19,8t. Swithin's-lane 4. Drapers-gardens. 3. Copthall-buildings	Robinson	11 11% 1% 2% 4% 5	10% 10%	0 0	pe July '95	5 0 C 1 0 O 1 0 O	517,000	Rand	28. Austin Friars, E.O 8, Prince's-street. 8. Old Jewry, E.C. 7. Lothbury, E.O.
African Gold Con. 2/6 3/ 2/6 3/. African Gold Ryco. 17/4 27/4 17/4 27/4 Afrikander	1 0 2/		1 00 1	75,000	Mossel By Transvaal. Transvaal.	16, Tokenhouse-yard 23, College Hill, 23, College Hill, EC 54, Old Broad-street	Rose Deep Rosenblock Tw'Ris	7% 8	636 856	1 0 2		1 0 0	300,000	M. Rf. rand Krugersdp	Warnford-court. I 30-31, 3,8 with's, lane 4, Tokenhouse bldgs.
Alexandra Estate G 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½ 1½	5 0 15	% Aug. 95	5 00 1	30,300	Rand 8. Africa Matabid. West Cost	Warnford Court, EC. 170, Winchester Ho. Winchester House. Dashwood House.	Salisbury Gold Sheba	51/4 53/4 20/4 23/18	18/ 20/ 5 5% 21/4 2/4	1 0	1/- Sept. '84	1 0 0	98,000 850,000	Rand	55, Bishopsgate st. 98, Gresham Ho., EO 18, S. Helen's place.
Appantoo G Aurora G 25/14 27/10 11/4 13/4 The West United. 5 3/4 2/4 8	1 0	-	1 00 10	00,000	Rand	8, Old Jewry.I 1, Crosby Square.	Simmer & JackG S. A.Gold Trust	20% 21 10% 11	18% 18% xd 9% 9%	1 0 1	07 Aug. 95 07 June 95	0 18 6 1 0 0 1 0 0	119,000 250,000 250,000	Zoutpan'bg Rand S. Africa	4, Sun Court, E.O. 8, Old Jewry. 8, Old Jewry.
Balhis Eersteling G 8/ 8/6 6 9 7/3 Balkis Land 9/3 9/9 8/ 8/6 Balmoral M. R. G 35/6 35/6 Banket. G 7/6 8/6 7/6 8/6	10/ 1 0 1 8	-	0 10 0 51 1 0 0 16	20,000	Fransvaal. Fransvaal. Drief'nt'in Rand	85, Gracechurch-st. 85, Gracechurch-st. 7, Lothbury. Johannesburg.	Southern Land South West Rand	6/- 6/6 15/- 16/-	15/- 15/-	1 0 1 0 1 0	=	0 15 0	00,000	Giqld.W	6, Great St. Helen's 19, St. Swithin's-la. Winchester House.
Barnato Consol G 19/4 59/4 59/4 59/4 59/4 59/4 59/4 59/4 5	1 0 1 0 10/	Ξ	1 0 0 1.0 0 9 0 20	83,000 CC0,000 07,496	De Kaap	Warnford-court, 1] 1, Drapers gardens. 17, Basinghall-street	Spitzkop (New) 6	1% 2 1% 1% 12/6 13/5	1% 1%	1 0	Op.e.June,'95	1 0 0	99,070 34,000	Lydenburg Rand	15. Bishopsgt-st, Wi. 96. Gresham Ho., E.) Dashwoo i Ho.
Bech. Trad g Assoc. 11/18 19/18 11/18 19/18 Big Golden Quarry 3/ 3/3 3/- 3/3	1 0 3/- 1 0 10 g	-	1 00 10	83,226	Bechuana. Bechuana. Kaap Bivr	19, St. Swithin's-lane. 19, St. Swithin's-lane. 4, Bishpegte, et. Wn.	Thistic Reef G Trans. Coal Trust Trans. Est. & Dev.	13% 2	3/9 4/3 256 234 156 134	5/ 1 0	1/- Mar. '95	0 5 0 1 0 0 1 0 0	439,965	Barberton. Rand Fransvaa!	Copthall House Broad- t. House, E.O. 76, O.d Broad-st. E.O.
Bock "B" Lang. 2 / 4 21/16 2 / 16 21/16 Bottest Land G 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8 / 8	1 0 1 0 1 0	-	0 12 0 8	95,000	Rand Fransvaal. S. Africa Potchefstr	8. Princ-s-st , E.O.: 4. Tokenhouse-bids 15. St. Swithin's-lane 7. Lothbury.	Trans. Gen. Assoc. Frans. Gold Exp. G Trans. Gold Fields Frans. Land	10% 10% 4% 4% 1 1%	376 456 836 9 xd 456 456 1 156	1 0	10% Mar. 95	1 0 0 1 0 0 1 0 0	135,000	Fransvaal . S. A. R Fransvaal .	31, 5 Swithn's lane, Suffolk House, E.C. 20, Bishopegt.st. Wn 33, Cornuit.
Cape Asbestos 236 236 118/16 23/18	1 0	-	1 00 1	12,000	Matabld. Orange Rv	10, Helen's Place. 13, St. Swithin's-lane	frans. Land	3% 4%	3% 4%	1 0	12% % dep.'91	0 15 0	60,000	Fransvaal . Rand	33, Corubill. Warnford Court. Broad Street House.
Do. 6 7 Pref 2 2% 2% 2 2% 2% 2% 2% 2% 2% 2% 2% 2% 2%	1 0 1/3 1 0 10p	June, '95 pe July '95	2 C O 1 1 O O 1 0 18 6 6	45,000 75,000 69,000	Cape Col. Johanbrg. Fransvaal.	9, Queen-street-place, 9 Queen-street-place. 99, Cannon-street. 15, George st. Mn. Ho.	U. Langlaagte(N)G United Matabele	8/8 9/8 13/16 11/16 23/4 35/4 18/16 21/16	114 2	1 0 1 0 1 0 1 0	21/4 Jan. '94	1 0 0 1 0 0 1 0 0	45,030 146,000 75,000	Rund Africa	110, Cannonastreet. 85, Gresham Ho., E.O. 19, 8, Swithin's lane.
Champ d'OrDeep G 2 1/2 2 1/6 2 1/4 3 Oity and Buburb. G 28 1/2 27 26 1/4 28 1/4	1 0 4/-		1 0 0 11 1 0 0 11 1 0 0 7	16,016 17,499 75,000	Rand Rand	8, Old Jewry, E.C. 8, Old Jewry, E.C. 95, Gresham Ho., E.C	Van Ryn G Van Ryn West	956 936	% 1% 9% 9%	1 0	=	1 00	75,000 160,000 120,000	Rand	16, S. Helen's-pl., E.O 18, St. Swithin's-in. 18, St. Swithin's-in.
Con, Bultfontein D 29/6 30/6 29/6 30/8 Con, Deep Levels G 7 1 7 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	1 0 336 1 0 202 1 0 5/	Z Bept. '94 Z June 95 - May '95	1 0 0 72 1 0 0 18 1 0 0 1,25	21,500 87,250 50,000	Griquaind Fransvaal S. Africa	105, Leadenhall-street 62, Lombard-st. 30, St. Swithin's-lane. 8, Old Jewry.	Village Main Reef Vogelstruis	8% 8% 5% 8	5%	1 0 1 0	Ξ	1 0 0	177,000	Rand	8, Old Jewry. Winchester House.
Do. 5 % 7 Pref 24/5 25/6 11/6 11/2 111/3 112/6 11/6 11/6 11/6 11/6 11/6 11/6 11/	1 0 71- 5 C 536 1 0	Sd June 95 Jan, '95	5 0 0 60 1 0 0 25 1 0 0 12	50,000 1 50,000 1	S. Africa S. Africa Rand	8, Old Jewry. 8, Old Jewry. 120, Bishopsgate-st. 120, Bishopsgt st Wn]	Westleigh	11% 12 1 1%	136 1136 xd	1 0	00% Aug. '95	1 0 0	55,000	Rand	147, Cannon-street 19, Bury-street, [?
Orom Mess G 124 1234 127 128 129 129 129 129 129 129 129 129 129 129	5 0 13/6 = 57 5%	Z Apr. 95	- 78 - 72	89,791 1 ,500000 1 20,000 1	Fransvaal, Fransvaal, Fransvaal,	69 Lombard-street	West Rand	3 3½ ½ ½ pm 1% 2	156 136	1 0	Ξ	1 0 0	700.000	Mashonald	8, Old Jewry. 3, Copthall-bldgs. 19, Bury-st., E.C.
Do Deep. 674 774 574 574 574 844 844 844 844 844 844 844 844 844 8	1 0	_	1 0 0 24	40,000	Elerkedrp	Winchester House,		10% 11 11 11% 36 1 4% 5	9% 10% % 1	1 0	16% July '95	1 0 0 0 18 0 1 0 0	39,021	Rand Transvaal .	Warnford-court.† Blomfield House. 8, Old Jewry.]
Exploration	1 0 10	Z Jan. '89 - Dec. 194	0 00 10	86,000 1	Rand B. Africa	28, Old Jewry, E.C.		836 536		1 #	-	1 00	65,000	Transvaal .	13 George-st., M.C.

JOHANNESBURG CONSOLIDATED INVESTMENT COMPANY WOODSTOCK (TRANSVAAL)

(LIMITED)

£800,000.

B. I. BARNATO, M.L.A. (Chairman).
HENRY C, BUCKNALL.
WOOLF JOEL.
ISAAC LEWIS,
JOHN PADDON.
SECRETARY.
T, HONEY.

CAPITAL

LONDON BOARD OF DIRECTORS.

EDMUND ESCOMBE (Managing Director).

G. H. BAW.
B. B. TRENCH.
H. L. WALTER.
Sir WILLIAM YOUNG, Bart.

LONDON OFFICES.
7, LOTHBURY, E.C.

JOHANNESBURG BOARD OF DIRECTORS.

CHARLES MARX.
Sir JAMES SIVEWRIGHT, K.C.M.G.
Hob, J. TUDHOPE (General Manager).

H. S. CALDECOTT, FRED. ENGLISH. J. FRIEDLANDER, S. B. JOEL. SECRETARY. J. PITTS.

JOHANNESBURG OFFICES. COLONNADE BUILDINGS.

REPORT OF THE DIRECTORS.

The Directors submit herswith their Report and Balance Sheet of the Company for the year ending 30th June, 1895.

In November, 1894, a London Directorate was established; and at the same time the Capital of the Company was increased from £350,000 to £850,000 by 7n issue of 200,000 by an issue of 120,000 by 8ners of £1 each at a premium of 10s, per Share. In February last the Company purchased the entire assets and business of the Bouth African Trust and Finance Company, Limited, and in connection therewith the capital was further increased to £300,000 by an issue of 133,000 Shares at a premium of £1 los. per Share. The Capital of the Company is thus £800,000 in 800,000 Shares of £1 each, of which 758,000 Shares are issued and there remains a balance of 12,000 Shares.

By circular issued in November last, the Directors announce that arrangements were in progress for the extinction of Founders' rights to participate (qually with the Ordinary Shares in any dividend declared in excess of £20 per cent. per annum. Under this arrangement the Company acquired an option (which it has since exercised) from the holders of 17,000 Shares carrying Founders' rights to extinguish these rights for an allotment of £5,000 fully paid Shares, and they are gratified to report that they have since concluded; an arrangement with the holders of the remaining 8,000 Shares carrying Founders' Rights to extinguish these rights on similar terms.

Bince the commencement of this year the lusiness of the Company has greatly expanded, and it has become interested in many very profitable, important flusancial, and mining enterprises.

The Company, by arrangement made in January last with Messra, Barnato Brothers, acquired from that firm the fluancial and commercial agencies in London of some of the most important Gold Mining Companies in the Transval upon the following advantageous terms, viz.;—That in consideration of an illustrating the value of the Shares of this Company, Messra, Barnato Brothers, acquired from that form the fluancial and com

The amount to the credit of Profit and Loss, including the balance of £14,573 2s 5d, brought forward from last year's statement, as shown in the accounts, is £989,029 4s. 10d.

The Directors recommend that the balance to the credit of Profit and Loss be appropriated as follows:

£989,029 4 10

The assets of the Company have been carefully valued, and the Directors are of opinion that their estimate of same will be more than realised.

Of the Stocks and Shares in various undertakings held on 30th June, many have since materially appreciated in value.

House and Landed Property and Shares in Landed Estates owned by the Company have been valued upon a basis to return 10 per cent, on the Capital value, inclusive of the premises occupied by the Company, and to meet which the property account has been written down to the extent of £15,05 the present London Offices of the Company have been written down to the extent of

215,054 0s. 5d.

The present London Offices of the Company being entirely inadequate to meet the requirements of the Company's business, the Directors have recently purchased a freehold site in Austinfriars, upon which a suitable and commodious building will be created.

The Directors have also decided to creat, upon one of the Company's most valuable freehold sites in Johannesburg, a large tlock of buildings, suitable for offices and shops, and on completion the offices of the Company will be transferred thereto.

Mr. G. W. Starr, late Manager of the Primroce Mine, has been appointed Consulting Engineer to the Company's and all mining enterprises with which the Company is associated have been placed under his management and control.

In view of the large amount of Capital required to deal with undertakings which are constantly arising in connection with the development of the Transval, the Directors deem it expedient to retain large resources on hand.

The business of the Company since the 30th June continues of a promising nature, and the Directors avail of every opportunity to acquire interests in the further developments taking place in South Africa.

By order of the Board, THOS, HONEY, Secretary.

JOHANNESBURG CONSOLIDATED INVESTMENT COMPANY, LIMITED,

BALANCE-SHERT, 30th JUNE, 1895. 2 s. d.
200,000 9 0

Ey Cash at Bankers and in hand
Loans to Mining Companies and on the London and
Johannesburg Block Exchange, repayable at short
notice or call (fully secured)
Bundry Debtors
Real State, House and Landed Properties and Shares in
care £ s. d. 366,630 5 2 273,895 8 6 800,000 £800,000 Fixed Deposits ... Sundry Creditor Profit and Loss-220,553 8 6
127,125 11 11
By Investment in Mining Properties and Shares, and in Financial, Municipal, Commercial and other under takings
By Sundry Assets, Machinery, Office Furniture, &c. 175,302 3 4 1,121,501 7 7 6,595 14 11 12,000 0 0 £1,697,695 5 3 £2,097,095 5 5

PROFIT AND LOSS ACCO	UNT F	OR	T	HE YEAR ENDING 30TH JUNE, 1895.				
To Salaries (including Audit Fees)	7,711	19 19	d.	By Revenue on Real Estate, House and Landed properties By Agency, Secretarial and Transfer Pees, Brokerage, Commis-	14,	₽ 053	3	d
To Interest on Deposits, Insurance and Exchange	1,347 €,013	14	11	sions, &c	62,	976 408 120	11	1
&c. (written down)	12,000			By Profits on Mining Properties, Shares in Mining and other Companies and undertakings (the Shares on hand taken at market value of the 10th June, 1885)	594,	029	,	
tising Licences, Cables, Postages, Bank Charges, &c To Balance carried down	2,804	18	*		£591	585	13	, !
	£690,585	13	9	a war de la companya				
To Interim Dividend paid at the rate of 20 per cent, per annum on 250,000 Shares	35.800		10		334, 840,	573 158 299	3	10
	£949,019	4	10		£989.	.029	4	15

We have audited the Books and Accounts of the Johannesburg Offices of the Company and found them correct,

JOHN MOON, Auditors,

We have addited the Accounts of the London Cffice of the Johannesberg Consolidated Investment Company, Limited, and find them correct, and that they and the Accounts of the Johannesburg Office are properly incorporated in the above Balance-Sheet.

OHATTERIS, NICHOLS, and CO, Auditors, Chartered Accountants.

London, 18th August, 1895.

Halkyn Mines Drainage Company.—The 41st ordinary general meeting of the shareholders of the Halkyn Mines Drainage Company was held on Wednesday, at Chester. In the absence of the Chairman (the Duke of Westminster), Mr. John Thompson presided over a fair attendance of shareholders. The directors, in their report, stated that the amount brought forward from the last account, after paying the dividend of 5 per cent., &c., was £1148 8s. 3d.; the profit for the half-year mas available for disposal £3273 8s. 1d. The directors advised the payment of a dividend at the rate of 5 per cent. per annum, which would absorb £1819 5s. leaving £120 8s. 10d., and there was available for disposal £3273 8s. 1d. The directors advised the payment of a dividend at the rate of 5 per cent. per annum, which would absorb £1819 5s. leaving £132 1d. to be carried forward. The weight of lead ore on which royalty had been paid was 2537 tons, against 2620 tons in the previous half year; blende being 124 tons, against 2620 tons in the previous half year; blende being 124 tons, against 263 tons. The average prices were £6 11s. 3d. per ton for lead, against £6 9s. 8d. in December, 1894.—The report and statement of accounts were adopted, and a dividend of 5 per cent. per annum for the half-year was declared.

RALLWAY MATERIAL IN EGYPT.—The value of the failway

RAILWAY MATERIAL IN EGYPT.—The value of the railway material imported into Egypt last year was £373,920. In this total of railway material English manufacture figured for 32.23 per cent.; Belgian for 28.84 per cent.; French for 27.80 per cent.; Turkish for 9.50 per cent.; German for 1.37 per cent.; and Italian for 0.27 per cent.

ANGLO - FRENCH EXPLORATION COMPANY (LIMITED). — Mr-Frederick Arthur Robinson, of 54, Old Broad-street, E.C., has been elected to a seat on the board of the above company.

THE MESSAGE OF PEACE is always appreciated and respected by all true men, for many of us hope the time is not far distant when it may be universally adopted by all nations. When this comes to pass, happiness and prosperity will be the rule and not, the exception. In the meantime, Holloway's Fills and Olatment have largely helped to make foreign nations understand that Englishmen delight in alleviating poin and suffering. These wonderful remedies have been blessed in many lands for the relief time have afforded and the cures effected. They are specially adapted for all complaints affecting the life, stomach, and kidneys, and at this season no family should be without a supply.

GOLD MINE, LIMITED. SOUTH AFRICA.

INCORPORATED UNDER THE COMPANIES ACTS, 1862 TO 1890.

CAPITAL, £200,000 IN £1 SHARES,

OF WHICH £70,000 is AVAILABLE FOR WORKING CAPITAL.

DIRECTORS.

ADMIRAL FREDERICK A. MAXSE (Chairman of the Aladdin's Lamp Gold Mining Company, Limited), Chairman,

EDWARD RAWLINGS, Esq. (Chairman of the Rand Southern Gold Mining Company, Limited).

JAMES MURRAY, Esq., J.P., Beechcroft, Stirling.

" CHARLES PRESTON GIBBONS, Esq., Assoc.Memb.Inst.C.E., Gravesend.

* H. MAPLEBECK, Esq., Of Barberton, Transveal, Managing Director.

* Will Join the Board after Allotment.

PROSPECTUS of the above COMPANY WILL BE

ISSUED ON MONDAY,

and can be obtained from the

BANKERS.

THE CITY BANK (LIMITED), Threadneedle Street, London, E.C.

BANQUE PARISIENNE, 7, Rue Chauchat, Paris.

BROKERS.

IN LONDON:

MESSES. EDWARD B. HASELDEN AND Co., 27, Throgmorton Street, E.C., and Stock Exchange-

IN MANCHESTER:

MESSES. STAVEACRE AND WALTON, 17, Haworth Buildings, Cross Street.

IN GLASGOW :

JAMES KIRKWOOD, Esq. 7, Royal Bank Place.

Or from the

SECRETARY of the COMPANY,

AT THE OFFICES,

2, COPTHALL BUILDINGS, E.C.

REPORTS FROM THE MINES

We find it necessary to announce that, owing to the vast numbers of minus, reports, and items of mining intelligence which reach us invariably very late—up to, and frequently after the time of going to press—it is impossible to guarantee the insertion of all of them in the issue in which, in ordinary owness they should appear. We always endeavour, however, to make this important feature as complete as possible, and if the secretaries of mining companies, mining captains, and others would kindly make an effort to let their reports, etc., reach us early on Fridays, when it is not possible to let us have them earlier in the week, their doing so would go far to ensure their usertion, and to promote the completeness of our Mining Intelligence.

BRITISH MINES.

BRITISH MINES.

DEVON GREAT CONSOLS.—W. Clemo reports as follows under date August 2:—Watson's engine shaft. In the 172 fathom level east the lode is 4 feet wide, composed of capel, fathom level east the lode is 4 feet wide, composed of capel, quartz, and a little copper and mundic ores. In the 148 fathom level east the lode is 4 feet wide, producing 9 tons of copper and mundic ores per fathom. The stopes throughout the mines are yielding fair quantities of copper and mundic ores.

LEADHILLS.—W. H. Paull, August 26: Brown's wein. The vein in the 160 fathom level driving north of Jeffrey's shaft is 4 feet wide, composed of spar and stone spotted with lead ore, but not to value, in drift recently started 3½ fathoms above the 160 fathom level south of Wilson's shaft the vein is 4 feet wide, worth 50 cwt. of ore per fathom. In winze sinking below the 145 fathom level north of Jeffrey's shaft are producing 20 and 25 cwts. of ore per fathom. Nos. 1 and 2 stopes above the 115 fathom level north of Jeffrey's shaft are producing 20 and 25 cwts. of ore per fathom. Nos. 1 and 2 stopes above the 151 fathom level north of Jeffrey's shaft are yielding 25 and 30 cwts. of ore per fathom. In the 100 fathom level driving south of Wilson's shaft the vein is 3 feet wide, contains a good mixture of spar, but stone rather dark again. The stopes above the 85 and higher levels south of Wilson's shaft are producing about \$\frac{1}{2}\text{cited}\text{ of the same character as of late. In diving north of this crosscot at said level Raik vein is worth 60 cwts. cited ore per fathom, and in going south of ditiot is yields 25 cwts. cited ore per fathom, and in going south of ditiot is yields 25 cwts. cited ore per fathom, and in going south of ditiot is yields 25 cwts. elsewhited his monthly report as follows: I beg to inform you that the men are making good progress in catting down the engine shaft. We have a superfect of the week — Boltsburn, Stopes in north flats from Wats level worth 26, 12, 40, 20, and 20 cwts, per fathom. Crosscotting

COLONIAL, INDIAN, AND FOREIGN MINES.

BREMNAES.—The following report has been received from the manager, Mr. John Daw, jun., dated Haugesund, August 23: Section 4, 400 feet level. We have been following the lode down since striking the dyke. We find the quartz to be about 15 inches wide, through which a good deal of mineral is scattered. Stones with visible gold have also been found. As this is a very important point, we hope soon to be able to report a further improvement.—300 feet level. A decided improvement has taken place in the winze sinking to communicate with the lower level. The quartz covers one-half of the length of the winze, and is about 10 inches in width. In the rise and stope in back of this level the improvement reported last week is well maintained, and we hope soon to be able to report communication with the winze sunk from the 200 feet level. In the level south the quartz is about 2 feet. Level south as before reported; this level is being driven with a rock-drill, and we are glad to say good progress is being made. There is a slight increase in the width of the quartz, and we appear to be approaching some richer ground. The stope in the back of this level north is producing some good quartz, but the lode is small. Other points show no alteration. We have not had time to weekly assay.—Section 5. The two points the back of this level north is producing some good quartz, but the lode is small. Other points show no alteration. We have not had time to weekly sessy.—Section 5. The two points attacked show no alteration. The quartz is narrow, but it is good; and were it possible to keep it separate from the deads, would mill an ounce to the ton.—Lower workings. We have now completed the erection of the boiler and pump with connection, and have laid a main from the reservoir, and began on Wednesday to drain the mine. As we have no plan of these workings it is impossible for us to from the reservoir, and began on Wednesday to drain the mine. As we have no plan of these workings it is impossible for us to asy when the mine will be drained, but we do not think it will take longer than from three to four weeks. Judging from the surface results we feel very confident as to the future of this property. The prospectors have found some very coarse gold by panning this week from the surface outcropping of the lode about 100 feet south of main shaft. On section 4 some stones rich in gold were broken in the presence of the Chairman. At this point a shaft has been sunk, which man. At this point a shaft has been sunk, which we think is sufficiently deep to allow us to commence at once man. At this point a shaft has been sunk, which we think is sufficiently deep to allow us to commence at once to drive north to communicate with the workings on section 4. The prospects in this direction are certainly very encouraging. During the Chairman's visit we have crushed from section 4.35 tons of quartz, obtained chiefly from the levels, with results 18½ ounces, or 10½ dwts. to the ton. This shows that there is a general improvement in the quality of the quartz, and had it not been necessary to clean up in the presence of the Chairman we should have crushed a few more tons from this section as well as the quartz from section 5. The Chairman brings with

HENDERSON AND FORBES,—The following is an extract from a letter recently received from Mr. Forbes:—"I have been prospecting on this property for over two weeks now. with a strong party, and found one reef that averages 15 dwts, per ton, but it is only 1 foot wide where we found it, but probably by following it up it may be wider in other places,"

ALBION (TRANSVAAL),—Extract from letter, dated August 2, received from the general manager at the mines at Barberton.—Barber's Reef: Work is going on here now very satisfactorily. I was all over the property on the 30th instant, all through the old works as far as I could get; there are two distinct reefs on the property, and the low level drive I am putting in is on the Lucknow claims. I shall start the other low level drive as soon as possible. I intend also to put in a short crosscut half-way up the hill, to cut the reef just under the old works. Half-way up the hill, to cut the reef just under the old works. Half-way up the hill on the Lucknow claims the reef is simply a quarry, measuring about 22 feet wide from the two low level drives I am going on with. The backs they will open up are almost beyond calculation, as the reefs vary from 6 feet to 20 feet wide. Intermittent cross leaders also go all over the ground. When this property is working I would suggest a crossout from boundary to boundary, right across the formation, and I dare venture to say that the whole of the hill is gold bearing. I hope next mail the two low levels will be going, so for the sake of reference I will call them Nos, 1 and 2 respectively. The No. 1 level as at present driving has gone poorer, it carries no free gold, and assays 12 dwts. 3 grains per ton. I took a panning from the old working which gave about 7 dwts. of free gold; the low level No. 2 is on this reef.

BRILLIANT BLOCK.—Mine manager's report for the fattnight.

is on this reef,

BRILLIANT BLOCK.—Mine manager's report for the fortnight
ending July 10:—Under is shaft. Deepened 10 feet, total 93 feet
below No. 7 plat, reef small on west side, but on the east it is 2 feet
thick, worth (say) 15 dwts. No. 7 level west driven 9 feet, total
length 86 feet, reef small and poor, stopes 2 feet, 7 to 10 dwts. No. 7
level east driven 18 feet, total length 253 feet, reef in face 4 feet,
14 to 16 dwts. 4 foet anality 15 to 20 dwts. No. 6

below No. 7 plat, reef small on west side, but on the east it is 2 feet thick, worth (any) 15 dwts. No. 7 level west driven 9 feet, total length 86 feet, reef small and poor, stopes 2 feet, 7 to 10 dwts. No. 7 level east driven 18 feet, total length 253 feet, reef in face 4 feet, 14 to 16 dwts., stopes 6 inches to 4 feet, quality 15 to 20 dwts. No. 6 level west stopes (three), reef 1 to 3 feet thick, 10 to 20 dwts. No. 6 level west tropes (three), reef 1 to 3 feet thick, 10 to 20 dwts. No. 6 level east reef in stopes 3 to 6 feet, quality 17 to 27 dwts. No. 5 level east main reef one step reef 2 feet, 17 or 18 dwts. No. 4 level west two stopes, reef 2 feet (any) 10 dwts.; flat reef four stopes, reef 6 inches to 1½ feet, 25 dwts.

DE LAMAR.—Copy of Captain J. W. Plummer's monthly report for July; Mining, ore breaking department. Hamilton vein, above 37d level. Average width of vein 2 feet 6 inches, assaying \$20.05 in gold and \$1.25 in silver, equals \$24.30 per ton.—77 feet vein, above 4th level, intermediate stope. Average width of vein 3 feet 9 inches, assaying \$30.15 in gold and \$2.67 in silver, equals \$32.67 per ton.—77 feet vein, 4th level. Average width of vein 3 feet 9 inches, assaying \$30 in gold and \$2.67 in silver, equals \$32.67 per ton.—77 feet vein, 5th level. Average width of vein 1 foot 10 inches, assaying \$16 in gold and \$1.60 in silver, equals \$17.50 per ton.—77 feet vein, 5th level. Average width of vein 4 feet 3 inches, assaying \$17 in gold and \$3 in silver, equals \$2.20 per ton.—77 feet vein, 7th level. Average width of vein 4 feet, assaying \$3.71 in gold and \$3.50 in silver, equals \$2.20 per ton.—77 feet vein, 7th level. Average width of vein 4 feet, assaying \$20 in gold and \$1.65 in silver, equal \$2.25 per ton.—77 feet vein, 9th level, east stope. Average width of vein 4 feet, assaying \$20 in gold and \$1.65 in silver, equal \$2.25 per ton.—No. 5 vein, 5th level. Average width of vein 2 feet 6 inches, assaying \$20 in gold and \$1.62 in silver, equal \$2.93 per ton.—No. 7 vein, 5th level. Average w line of veins. It was driven 59 feet without developing anything, and was suspended.—77 feet vein, 3th level, on footwall branch. Reported length 154 feet, advanced for the month 30 feet, total length 184 feet. During the beginning of the month the vein averaged 2 feet wide, assaying \$16 is gold and \$5 in silver, equal \$21 per ton. It gradually became narrower and less in value, and was suspended. A crosscut driven from the 10th level has intersected the same branch, which is about 1 foot 5 inches wide evening \$20 in reals and \$2 in section of the same branch. A crosscut driven from the 10th level has intersected the same branch, which is about 1 foot 6 inches wide, assaying \$40 in gold and \$5 in silver, equal \$45 per ton.—77 feet vein, 10th level east. Reported length 635 feet 6 inches, advanced for the month 27 feet 3 inches, total length 662 feet 6 inches. There is no change to report in the appearance or value of the vein.—No. 5 vein, 5th level west. This has been advanced for the month 27 feet. The average width of the vein is 5 feet 8 inches, assaying \$25-25 in gold and \$2-60 in silver, equal \$27-85 per ton.—Miscellaneous work. Reef crosscut advanced for the month 19 feet. The ground has been hard and tough.—North crosscut, 6th level. This crosscut was commenced from the sixth station, incline shaft, and was driven for the purpose of intersecting the Hamilton vein. Total length of the crosscut, 42 feet.—Hamilton vein, 6th level. A level has been driven on this vein for 34 feet. Some sections of it showed fair ore; the general average is rather low.—Raise from 6th level to 5th level, on Hamilton vein. This raise is 24 feet high. It is being carried up on the vein.—Crosscut 77 feet vein, 8th level. This is 12 feet long, driven through a horse of porphyry, separating two branches of ore.—Summercamp a horse of porphyry, separating two branches of ore,—Summercamp group. Reported length of main tunnel, 333 feet; advance for the month, 20 feet. There is no change to report.—Milling department. The milling operations for the month were of their usual regular character. The clean-up and general repairs, instead of taking place on the 1st of the month, were deferred until after the 4th.

gold, which has gone in the 60 north.—Stoping operations. These have been carried on very extensively, the output being over 1000 tons, which if it had been of reasonable quality, would have given over 4000 citavas, but instead of this the produce is very low.—60 horizon. At this place we started to drive south. The lode here is rich, but the ground is very trubbesome for driving. For the month driven I fathom I foot. The drivage north has been advanced I fathom 3 feet in lode of bot been necessary to clean up in the presence of the Chairman we should have crushed a few more tons from this section as well as the quartz from section 5. The Chairman brings with him the gold obtained from the late crushings, as well as from the pannings and other points.

HENDERSON AND FORBES.—The following is an extract from a letter recently received from Mr. Forbes:—"I have been prospecting on this property for over two weeks now. with a strong praty, and found one reef that averages 15 dwts, per ton, but it is only 1 foot wide where we found it, but probably by following it up lit may be wider in other places,"

drivage north has been advanced 1 fathom 3 feet in lode of rather low quality, being also very wet.—Hilke's level. From the horizontal drivage we have sunk during the month 4 fathoms. In this distance some very rich work has been met with, and, on the whole, it pays well to extract. From the incline sunk we have started to drive horizontally under the old eastern drivage, where we know we have good paying mineral to extract. Driven for the month 3 fathoms.—Morro doe santa Anna. The drivage No. 1 has been extended 1 fathom 5 feet in a rich-looking lode, thickly mixed with pyrites. The only 1 foot wide where we found it, but probably by following it up lot one we carried is about 6 feet thick, with lode still standing below tramway. below tramway.

TOLIMA.—The directors have received advices by the mail of TOLIMA.—The directors have received advices by the mail of August 24 from their mines, of which the following is an abstract:—Frias, June estimated returns (120 tons) silver, valued at 33d. per ounce (fine), £5242 0s. 4d.; Frias, June cost, £3447 5s.; Frias, June profit, £1794 15s. 4d. The underground agent reports 101 fathoms 5 feet of ground expended, of which 74 fathoms 5 feet 9 inches were productive, leaving 26 fathoms 5 feet 3 inches of unproductive ground. The superintendent, writing under date of the 16th ult., explains that the reason why the June profit appears less by nearly £200 than was estimated in his cable advices of the 4th ult., is that the cost turned out to be higher than usual, as certain rather expensive repairs to and improvements in the surface machinery had to be included in the cost-sheet for that month. Meanwhile, he draws attention to the fact that the grade of the mineral is improving, the average of the June invoice exceeding 350 ounces to the ton. He adds that the 120 east winze No. 2 continues in a productive run of ground below the 130 fathom level, and that the 110 fathom levels eart and west on the north branch continue very regular in yield of mineral and that the exploratory works at that point are opening out good reserves.—Underground report. Engine shaft was sunk 6 feet during a part of the month at \$255 per fathom thus giving 30 feet as total depth on line of shaft below the sole of the 140 fathom level, and the branch of the main lode that it is in contact with continues to yield some good portions of high grade mineral. 150 fathom west end was driven upon the hanging wall part of the lode 22 feet, by four men, at \$80 per fathom, and it yielded 1 ton of mineral per fathom. 150 fathom west end does adriven 12 feet, on company account, and yielded 1½ ton of mineral per fathom. It will be seen from the above that the aggregate yield of the lode averaged 2½ tons of mineral per fathom, and that the mineral, as proven, was stronger in the root than in the sole of driven 12 feet, on company account, and yielded 1½ ton of mineral per fathom. It will be seen from the above that the aggregate yield of the lode averaged 2½ tons of mineral per fathom, and that the mineral, as proven, was stronger in the roof than in the sole of the level. 150 fathom east end was driven 26 feet by four men at \$70 per fathom, and the lode only yielded slight bits of mineral here and there. 140 fathom west end north branch was driven 7 feet, by two men at \$85 per fathom, and the lode continues poor. 140 fathom east end was driven 23° feet by four men at \$80 per fathom, thus being 312 feet as total east of the west winze, and the lode is yet poor. 140 fathom east back stope No. 1 was stoped 40.5 feet by four men at \$42 per fathom, and yielded 4 tons of mineral per fathom. 140 fathom west end was driven 17.5 feet by two men at \$42 per fathom, and yielded 4 tons of mineral per fathom. 130 fathom west end was driven 17.5 feet by two men at \$63 per fathom, thus being 489.7 feet as total west of the west winze, and per fathom, thus being 489.7 feet as total west of the west winze, and the lode yet remains poor. 130 fathom west back stope No. 1 was stoped 35.6 feet by two men at \$25 per fathom, and yielded 1½ ton of mineral per fathom. 130 fathom west back stope No. 2 was stoped 47.9 feet by four men at \$35 per fathom, and yielded 3 tons of mineral per fathom. 130 fathom east back stope No. 2 was stoped 47.9 feet by four men at \$55 per fathom, and yielded 1½ ton of mineral per fathom. 130 fathom east end from 120 east winze No. 2 was driven 23.2 feet by four men at \$70 per fathom, and yielded 1½ ton of mineral per fathom. per fathom. 130 fathom east back stope No. 2 was stoped 22 feet by four men at \$70 per fathom, and yielded 1½ ton of mineral per fathom. 130 fathom east end from 120 east winze No. 2 was driven 22.2 feet by four men at \$70 per fathom, and the lode only yielded bits of mineral here and there, and the forebreast remains poor. 120 fathom west back stope No. 1 was stoped 21.6 feet by four men at \$40 per fathom, and yielded 2 tons of mineral per fathom. 120 fathom west back stope No. 3 was stoped 30 feet by four men at \$30 per fathom, and yielded 15 cwis. of mineral per fathom. 120 fathom east back stope No. 1 was stoped 32.5 feet by two men at \$25 per fathom, and yielded 1 ton of mineral per fathom. 110 fathom east end was driven 16 feet by two men at \$70 per fathom, thus being 920.4 feet as total east of the engine shaft, and the lode remains poor. 110 fathom east bottom stope was stoped 24 feet by two men at \$25 per fathom; that yielded 10 cwts. of mineral per fathom, and it is now finished. 110 fathom east end north branch was driven 13 feet by two men at \$70 per fathom, and it yielded 14 cwts. of good grade mineral per fathom. 110 fathom west end north branch was driven 11 feet by two men at \$60 per fathom, and it has continued to yield 1½ ton of mineral per fathom. 110 fathom west back stope No. 2 was stoped 26 feet by two men at \$25 per fathom, and it yielded 3 tons of mineral per fathom. 90 fathom east end was driven 15 feet by two men at \$60 per fathom, thus giving 1095.8 feet as total east of engine shaft, and the lode yet continues poor. 90 fathom east bottom stope No. 2 is situated from the west end of the 90 east winze, and was stoped 58 feet by two men at \$30 per fathom, and it yielded 15 cwts. of mineral per fathom. 80 fathom level east stope was stoped 25.6 feet by two men at \$30 per fathom, and it yielded 10 cwts. of mineral per fathom, and it yielded 10 cwts. of mineral per fathom, and it yielded 10 cwts. of mineral per fathom, and it yielded 10 cwts. of mineral per fathom, and it yet continues in

and the lode remains poor. 35 ratiom eastend was diven 212 feet by four men and a boring machine at \$80 per fathom, and the lode continues tight and poor.

YERRAKONDA.—Fortnightly report of Captain M. Scantlebury, dated August 6:—Beresford's shaft. This shaft has been sunk 9 feet 6 inches, now 78 feet 9 inches below the 300 feet level. The lode is 7 feet wide, composed of quartz and iron pyrites, and worth 4 dwts. of gold to the ton. 300 feet level north has been extended 18 feet 6 inches, now 138 feet from shaft. The lode is 2 feet 6 inches wide, composed of quartz and iron pyrites, assaying 3 dwts. 6 grains of gold to the ton. New engine shaft has been sunk 2 feet, now 218 feet from surface. During the past fortnight the men have been engaged taking up the water at the 200 feet level, and casing and dividing the shaft. Better progress will now be made in sinking, South shaft has been sunk 4 feet, now 140 feet from surface. The lode is 4 feet wide, showing good walls. The quartz is 1 foot 9 inches wide, and worth 4 dwts. gold to the ton. The rock is very hard for hand-labour,—Prospect shaft south. This has been sunk 24 feet, now 36 feet from surface. We appear to be underneath the ancient workings. The quartz seen is 4 feet wide, and of a very hard nature. From six samples taken the average value is 5½ dwts. of gold to the ton. We can hardly say much about this until we have followed down the quartz a few feet.—Health. I am pleased to say the health of the camp is good,

WENTWORTH EXTENSION.—Report dated July 20 states that

character. The clean-up and general repairs, instead of taking place on the 1st of the month, were deferred until after the 4th.

NEW CHIMES.—Details of July working: Tons milled 4013, stamps working 40, number of days mill ran 29½, yield from plates 1810 ounces of gol4, tailings treated by cranide 2850 tons, yield of bullion from cyanide works 388 ounces, about 40 tons concentrates, assaying 4 ounces 18 dwts, to the ton.

DON PEDRO GOLD.—Mine manager's monthly report: August 1. Maquiné. Considering the difficulty we have passed through in sinking, I am pleased to inform you that we have sunk for the month 2 fathoms, making a total distance under the 60 of 67 feet, or 11 fathoms 1 foot.—Crosscut 70 horizon. I have now started a crosscut at this point, to be driven direct to a line of gold, which has gone in the 60 north.—Stoping operations.

There have heave carried on the camp is good, we feet.—Health. I am pleased to say the health of the camp is good, WeNTWORTH EXTENSION.—Report dated July 20 states that the main shaft Carroll No. 2 has been sunk 13 feet, total depth 82 feet. Formation continues blocky diorite with small veins of quartz.

RAND GOLD.—Mr. Pegler, the resident engineer, writes as follows, August 5:—The Rand Gold Mining Company's claim. I visited this property yesterday, and can fully confirm my previous opinion as to its value. The claims number 46, and practically carry the Battery and Violet reof throughout. Taking the reef at 2 feet 6 inches in thickness, and estimated at 12,500 tons yet benefit of the camp is good, WeNTWORTH EXTENSION.—Report dated July 20 states that the main shaft Carroll No. 2 has been sunk 13 feet, total depth 82 feet. Formation continues blocky diorite with small veins of quartz.

RAND GOLD.—Mr. Pegler, the resident engineer, writes as follows, August 5:—The Rand Gold Mining Company's claim. I visited this property yesterday, and can fully confirm my previous opinion as to its value. The claims number 46, and practically carry the Battery and Violet reof throughout. Ta A 25 mill stamp, crushing 4 tons per head per diem, equalling 100 tons per diem, and 300 days per year would treat 30,000 tons, and give life to the mine for over 23 years. At the very least the profit per ton on yield should be 12s, 6d., equal to an annual profit of £18,750. It is certain the deeps of other leaders exist here to which a future value must be attached. Your working capital is ample, and I should addies a days content to the form deading on continuous contents. and I should advise development before deciding on erection of mill. It may turn out the ore can be treated by the dry process, which would largely increase your profits, and render the outlay of capital considerably less in the erection of the necessary of capital considerably less in the erection of the necessary crushing and cyaniding plant. It may be advisable to cut a bore-hole down to or sink a vertical shaft on the property. In the latter case it should be put down at a central point to cut the reef half-way down in its dip, and an incline shaft down to the boundary, and an uprise incline to the surface. In fact, there is no obstruction to the economical working of these claims. The surface ground is suitable for the erection of the plant and disposition of the tailings.

CARATAL MINING .- The directors have heard by last mail that their superintendent at Venezuels, while erecting the cyanide plant, had taken the opportunity of utilising the mill (which he found in workable order) by entering into profitable contracts for crushing the ore of neighbouring mines, and that he had 30 head of stamps

CUMBERLAND.—The manager, Mr. Anthony Gallagher, reports as follows:—Herewith I beg to submit my report for month of June: No. 5 level north. This level is now driven 425 feet. At a distance of 472 feet north of No. 2 shaft the reef of 6 inches widened out suddenly to 3 feet 6 inches in the face, with 6 inches of a dip on the hanging-wall, carrying some mineral, the reef apparently increasing in size going down. After a few feet more had been driven, however, horses of grante split through the reef, reducing the width of pure reef to about 3 feet. Every foot then driven proved the unsettled character of the reef, although there appeared to be a large body of ore going down. At present there is a foot of reef showing in the face, which assays 3 ounces to the ton. It is my intention on the completion of the present contract for driving to rivise from 20 to 30 tons of ore by underhand stoping on the reef for it trial crushing, with a view to proving the quality of reef, and the prospect of it making down. If the result should prove favourable I will then drive Nc. 6 level further north, and sink a winze from this point to No. 6 level. Should there prove to be a payable ore body the ground will then be open for stoping.—No. 4 intermediate level noth. This level is now driven 172 feet. The reef mentioned in my last report has narrowed down to a mere thread, I have abandoned further driving here. It is my intention to work up from this level to the point from which the trial crushing was taken last year, yielding 4 onness 34 dwas to the too. The reef ment either be running very flat to the north or must have plached out since we have not met with it in this level. I shall probably put crossonts in the foot and hanging walls should we fail to flud the continuation of the reef.—The stopes. There have been eight men working in the stopes above No. 4 level noith. The reef has been very variable in size and quality. At times really good-looking ore was obtained, but owing to a grantile horse rounning through the reef a lar CUMBERLAND .- The manager, Mr. Anthony Gallagher, reports as follows:—Herewith I beg to submit my report for month of June: No. 5 level north. This level is now driven 425 feet. At a distance of 472 feet north of No. 2 shaft the reef of 6 inches widened

been annoying delays, which are always liable on beginning a new opening. I propose to clean up about August 20, and even if we have a loss there is no cause for slarm.—T. P. Sharman.

HAMPTON PLAINS EXPLORATION.—The directors bave re-

HAMPTON PLAINS EXPLORATION.—The directors have received advices by mail from their agents in West Australia, Messrs. Bewick, Moreing and Co., stating that they had appointed Mr. Demole, a qualified surveyor, who had recently been the manager of a mine, and for many years previously in the Victorian Government service as surveyor and railway engineer, to devote himself exclusively to mining work on the Hampton Plains. Under date of July 13 Mr. Demole reports as follows from Coolgardie:—In according the instructions I have established a mining same on Block 45. with instructions I have established a mining camp on Block 45 on the Hampton Plains Estate about the centre of the block. About the Hampton Plains Estate about the centre of the block. About this part of the block there is a perfect wealth of reefs and what I deem of equal importance, some well-defined ironstone lode caps continuing with strong outcrops for some considerable distance, and I am in great hope of being successful in our quest for payable reef. One nice specimen of gold-bearing stone was obtained near the 2 mile pag south boundary of Block 45; shall follow up the clue closely. I have also set four men prospecting on Block 45 and an going theretomorrow and form there a Block 45. follow up the clue closely. I have also set four men prospecting on Block 48, and am going there to morrow, and from thence to Block 45. Everything, so far, seems satisfactory in connection with the prospecting work. Messre, Bewick, Moreing, and Company add: "We have eight or nine men on Block 45, and three men on Block 48. These men are thoroughly equipped for systematic prospecting, and we trust that in a few weeks time some valuable claims will be

and we trust that in a few weeks time some valuable claims will be pegged out.

MALMANI GOLD SYNDICATE.—Ottoshoop, S.A.R., August 4:

—General report of work done on the farm and mynpacht Doorn-plaat West, No. 99, from April 18 to date. The farm is situated on the Malmani gold fields, in the Marloo district, S.A.R. Extensive trenching has been carried on to the south of main shaft measuring 822 feet, to an average depth of 15 feet, 1700 tons quartz being extracted to date. From the trenches north of vain shaft, which measure 320 feet in length, with an average depth of 16 feet, we have 700 tons quartz at grass.—Underground work: shain shaft No. 1, 6 feet by 9 feet. Depth 50 feet, well timbered for main work (i.e., pumping and hauling gear). Have driven to north 75 feet, extracting 160 tons quartz. Sank a sump in this shaft to supply the 10 stamp battery and works with water; this shaft will also be used to drain the mine.—Prospecting shaft No. 1, 5 feet by 6 feet. Connected by drive (at 40 feet level) 155 feet long to main shaft, and having east west drives measuring 142 feet, with winze 15 feet deep, with drive to east 53 feet, from which we have extracted 120 tons quartz.—Prospecting shaft No. 2, 5 feet by 6 feet, 24 feet deep, driving along reef to south 31 feet. 42 tons quartz to grass. Total of quartz at grass 2713 tons. The quartz has been assayed and panned, and I have no hesitation in saying that over the plates the of quartz at grass 2713 tons. The quartz has been as ayed and panned, and I have no hesitation in saying that over the plates the return will be from 15 dwts. to 1 ounce, and from the tailingstreated by cyanide process from 10 to 12 dwts, will be recovered, and for this purpose I recommend the immediate erection of cyanide plant.

—Battery, &c. A 10 stamp Horneby battery has been erected on the mynpacht 135 feet from the main shaft on a good solid foundation, and is in thorough working order. A 25 horse-power Robey engine with boiler has also been erected to work the battery and pump, with boiler has also been erected to work the battery and pump, the foundation costing a considerable sum, being entirely composed of block stone and Portland cement to a depth of 10 feet.—Wood. This property is well wooded, and for the first two or three years the syndicate will not be put to the expense of buying feel. Up to the present 86 cords of wood have been cut, and delivered at the battery at a cost of 7s. per cord.—Labour. The mine at present employs 62 Kaffirs, their wages averaging from 20s. to 50s. per month, the underground boys only getting 50s, per month. The syndicate supplies food to all Kaffir employees. The general health on the mine is exceedingly good. The white staff at present consists of the following:—One manager, assistant manager, secretary, one fitter, one mining carpenter, one general carpenter, one engine one fitter, one mining carpenter, one general carpenter, one engine driver, one mason, three overseers. We are at present only work-

ing on the main reef, but there are two leaders running parallel with it, from which very successful pannings have been taken.—
Carl Brauer, director and manager.

MYSORE WEST AND MYSORE WYNAAD.—Tank Block: The

mining manager (Mr. P. Bosworth-Smith) reports by mail for the month of July as follows: South shaft. A hopper has been cut at 450 crosscut from shaft. The rock broke in long slabs along the hanging-wall necessitating cutting the hopper from above, and consequent loss of time. 450 level north drive has been carried to 274 hanging-wall necessitating cutting the hopper from above, and consequent loss of time. 450 level north drive has been carried to 274 feet 6 inches from crossout to shaft, making a progress of 64 feet for the month. In the beginning of the month the lode was in places 7 feet wide, and worth 15 dwts. per ton; it then went back to 4 feet wide and 8 dwts. value, after which a head came in and out it down to 6 inches in width. The end has now opened out again to 2 feet 6 inches of quarts, worth 8 dwts. per ton. 450 north rise was wrongly reported last month as 11 feet 3 inches, iostead of 16 feet 9 inches. This was carried up and holed to the 400 level on 26th inst. at a distance of 51 feet 6 inches, progress 34 feet 9 inches. The quartz just on holing assayed 10 dwts, per ton. Intermediate level north drive was carried 56 feet from rise, progress 37 feet. The lode is 2½ feet wide, and worth 1 ounce per ton. Intermediate level south drive carried to 70 feet, and stopped on boundary quartz 7 feet wide, and worth 8 dwts, per ton. South intermediate rise carried up 44 feet 6 inches, progress 44 feet 6 inches. As we expected from the 400 south the quartz has given out. 400 stope we have started stoping at the top of rise from 450, the quarts is at present 1 foot wide, and worth 11 dwts. per top. Nondydroog has holed at our 450 south and intermediate south, consequently our ventilation is much improved. The mill ran 584 hours, crushed 400 tons of quartz, and yielded 306 ounces of bar gold. The short run was due to came slipping. We stopped on the 20th to take our came sheft and key no came with new key.

ran 584 hours, crushed 400 tons of quartz, and yielded 306 ounces of bar gold. The short run was due to cams slipping. We stopped on the 29th to take out cam shaft and key up cams with new keys. Plans of the 10 extra heads of stamps have arrived, and the excavations and foundations will be started shortly.

MOUNT ZEEHAN (Tas.).—Manager reports for week ended July 6: Silver Queen section, No. 8 lode, main shaft, sunk 3 feet; total below No. 1 level 41 feet. No. 1 level north extended by tributers 8 feet, total from the No. 2 crosscut 80 feet. Lode has improved. For the whole distance driven by tributers, 78 feet 6 inches, it will average 1 foot of first-class ore. Stoped 3 tons 5 cwts. first, assaying 69 per cent lead and 87 ounces silver per ton.—Queen Extended section, G tribute. Tunnel driven 140 feet; lode better than ever, and showing 2 feet of solid galena of a rich character. Winze about midway in tannel has been sunk to 2 depth of 25 feet. Lode carries 1 foot of first-class ore. Concentrator has 25 feet. Lode carries 1 foot of first-class ore. Concentrator has run 61 hours and crushed 187 tons seconds, principally for

MOSMAN .- Mine manager's report for fortnight ending July 6: MOSMAN.—Mine manager's report for fortnight ending July 6: North Australian. Byerley level north, four stopes, reef averages 4 inches, medium quality. Byerley level south, four stopes. In one the reef is 15 inches, good quality. In the other 6 inches. Underhand stope, leader 3 or 4 inches, good quality.—Peabody. Underlie shaft, depth from surface 195 feet. In stripping the last 20 feet to widen out, several leaders of good-looking mineralised stone were met with.—Wyndham, 14 level north driven 13 feet, total length 153 feet. Reef 6 inches, poor. Formation good size, and encouraging. 13 level north driven 20 feet, total length 383 feet. Reef 8 inches, poor, in good formation. Eighth level south,

total length 153 feet. Reef 6 inches, poor. Formation good size, and encouraging. 13 level north driven 20 feet, total length 383 feet. Reef 8 inches, poor, in good formation. Eighth level south, reef 4 to 15 inches, good quality.—Underlie shaft. Have again started to sink. Shaft at present in slide, progress slow.

MOUNT LYELL.—Copy of mine manager's report for week ending July 10: Surface prospecting shaft, hanging-wall. Very little sinking has been done this week; the men have been engaged in cutting into the pyrites so as to allow of the skids being put in. This work was necessitated by the change in dip of the pyrites.—No. 1 cross-cut north drive, No. 3 tunnel. The crosscut has been driven 2 feet, total 22 feet; there is no change.—No. 2 crosscut north drive, No. 3 tunnel. The crosscut has been driven 18 inches, total 16 feet 6 inches. The pyrites are intensely hard but improving in value.—South The pyrites are intensely hard but improving in value.—South drive, No. 3 tunnel. The face has been advanced 6 feet, total 385 feet; country hard.—North drive, Indicator winze. 6 feet has been drive, No. 3 tunnel: The face has been advanced 6 feet, total 385 feet; country hard.—North drive, Indicator winze. 6 feet has been driven, total 41 feet; there is no change to report.—North drive, No. 4 tunnel. The contractors have driven 4 feet, total 179 feet; ground slightly easier.—South drive, No. 4 tunnel. The drive has been advanced 6 feet, total 171 feet; country hard ironstone.—No. 2 winze, No. 1 crosscut, south drive, 50 feet level engine shaft. The windlass has been fixed and the winze sunk 3 feet, total 12 feet. The sinking is in copper pyrites; the acriferous schist vein continues.—Stopes over north drive, 50 feet level, engine shaft. Some prospecting is being done here southerly; next the pyrites there is a soft vein of oxidised ore carrying gold and silver.—Engine shaft, No. 4 tunnel. The shaft has been sunk 7 feet, total 135 feet. We should hole through to the No. 5 tunnel in the coming week.—Progress report for week en ling July 10: Haulage line. Bank engine in active progress, ready for steam connections and brake gear. Will commence grading to level of No. 4 tunnel in a few days. Smelter site completed and ready for masons on retaining wall. Smelting siding in full progress.—Converter site. Excavation commenced.—Brick plant. New boiler in position and bed logs of engine placed. Plant running full time. Sawmill plant running full time on smelter timber.—Lime kiln. Quarry opening up well. Kiln running wall.—High pressure reservoir. Sheathing finished.
MILLS' DAY DAWN UNITED.—Mine manager's report for the fortnight ending July 1: Underlie shaft sunk 5 feet, 112 feet below 9 level plat. Timbering for No. 10 plat. 9 level west, hanging-wall, driven 12 feet, total 272 feet. Reef 2½ feet in the face, improvement during past few days. Crosscourse level driven 10 feet, total 179 feet 9 inches on hanging-wall, good quality, and 1 foot on footwall. 8 level eaft driven 12 feet, total 46 feet. Reef 5 feet, heavy mineral

back average 2 feet heavy mineral stone to the winze, and from winze 2 feet medium quality, 8 level west driven 8 feet, total 119 feet 9 inches on hanging-wall, good quality, and 1 foot on footwall. 8 level eaft driven 12 feet, total 146 feet. Reef 5 feet, heavy mineral stone. 8 topping on 18 inches fair quality. Improving both in size and quality going east. 6a stopes average 6 feet good quality stone, 6 level east, stopes average 5 feet heavy mineral stone. 6 level west, stopes average 4 feet, fair quality. 5 level west, boundary stope 18 inches, very heavy mineral stone. 5 level west, boundary stope 18 inches, in the stopes average 4 feet for 5 feet heavy mineral stone. 3 level east sinking on 18 inches of medium quality stone dipning cast.

rise from end of level reef 1 to 5 feet heavy mineral stone. 3 level east sinking on 18 inches of medium quality stone dipping east.

NEW LONDON ESTATES.—Extract from manager's reports dated August 17: Ross shaft. We have sunk during the past week 5 feet 3 inches, making the total depth to date 116 feet 5 inches. The ground is very considerably harder, the slates being more laminated, and therefore harder to break. The vein of quarts before reported continues to hold down through the shaft at about the same dip the gold thesele being if sawthing more regular. the same dip, the gold therein being, if anything, more regular, but not as yet in paying quantities; the indications, however, are very encouraging, inasmuch as it is only at depth we have found any gold in the veins. The 9 inch pump now works in the most satisfactory manner, the wear on the bucket; being very slight. It have lowered into the short the 6 by A by 6 Warthington pump to have lowered into the shaft the 6 by 4 by 6 Worthington pump to run only when we have to stop the Cornish pump to change buckets or clacks, to enable us to keep the water in fork and thus save time. Heretofore when we had to stop for either of the before-mentioned causes, it took from two to three hours to lower the water before the miners could again start work; as I now have it we lose little or no time

PAHANG CORPORATION. - The manager, Mr. T. H. Bath, reports under date of June 3: Since taking over charge of the mines here the adit level east has been driven 27 feet, total from crosscut 253 feet. The lode here will average 3 feet in thickness of fair quality, but is very dirty, being heavily charged with copper, arsenic, and other minerals. The level west has been advanced another and other inherans. The level west has been accorded another 31 feet, total 169 feet. The country passed through was a hungry grey conglomerate. There is no lode much in the face, but I expect it to make as there is a good lode in the winze about 100 feet ahead. No. I level above the level east from this addt has been driven a further distance of 35 feet, total from crossout 228 feet. The lode will everage 3 feet of poor quality stone. The country passed through was a mixture of grey and black slates. We have had an improvement this last week, and driven through some fair tin to-day and yesterday. The A winze east has been connected with

the adit level, and has been sunk 37 feet, total 74 feet, The B winze west has been sunk 21 feet, total 37 feet through slate country. There is a little tin showing in the bottom, and the lode will average 3 feet in thickness,—Stoping. Started a party of men stoping above the adit level east. The lode here will average 7 feet of fair quality stone. I find this shoot of tin at present opened up to be 130 feet long in this level, I also started a party of men stoping above the No. 1 level east. The stone in this level is much the same in size and quality as the stopes in the adit level, and we will have the same amount of backs to take out, by this you will see we have backs to a height of 140 feet by 130 feet in length.—Sheft, I would advise to start and sink the shaft at once, with 20 good coolies, I would be able to sink to a depth of 20 feet, and start crosscutting for the lode, which I could expect to out about 340 feet from the would be able to sink to a depth of 20 feet, and start crosscuting for the lode, which I could expect to cut about 340 feet from the shaft. This would be done by windlass, and I do not believe we would have much water before tapping the lode; long before that time we could have the small engine from Pollocks erected and working.

working.

— Under date of July 2, Mr. Bath states: Since my last report

— Under date of July 2, Mr. Bath states: Since my last report the adit level east has been driven a further distance total 269 feet. The country passed through was a hard dark flinty slate on the footwall, and the hanging wall was composed of a grey conglomerate. The ground has been bad to bore and shoot, and the on the footwall, and the hanging wall was composed of a grey conglomerate. The ground has been bad to bore and shoot, and the contractors have made but poor progress. The ore in the face at present is of poor grade, and heavily charged with copper and arsenic. Level west has been advanced another 35 feet, total 206 feet through slate country. The lode here will only average 8 inches in thickness, and is not payable. I expect to cut the winze B in 80 feet more of driving; we had some fair quality ore in the bottom of this winze when I stopped it.—Stopes. The stopes over the back of this level will average 7 feet in thickness, of fair quality ore. The lode is underlying far more in this level than in the level overhead; I am getting the hitches cut preparatory to putting the stull timbers. I have started two parties of contractors stoping over the back of this level.—No. I level above adit. The drive east has been driven a further distance of 25 feet through a dark slate; the lode will average 2 feet of poor quality ore heavily charged with other minerals. The country has got much harder this last fortnight, total 253 feet. The drive west has been advanced another 13 feet, total 358 feet. As the contractors had finished another 13 feet, total 358 feet. As the contractors had finished putting down the winze to meet the level west from adit, I started putting down the winze to meet the level west from adit, I started driving this level to intercept the shoot of tin that had been worked on the surface by former miners. The country passed through was a greywacke and slate, with bands of ironstone and quarts, and is a very likely looking country for tin, still, I have seen no tin since I commenced driving. B winze has been sunk 7 feet, total 64 feet, This will be deep enough to intercept the level west of adit.—Stopes, No. 1 above adit east. We have also started two parties of contractors stoping here, and the lode will average 8 feet of fair quality ore. I think I now have enough men to keep the 20 head of stamps employed night and day.—Shaft. We started a party of men to make preparations for sinking shaft to intercept lode below adit level. Since starting they have excavated 140 cubic yards of earth.—Pump. We shall want a light steam pump to throw the water a height of 100 feet from the shaft; one of a discharge of 4 inches diameter would be quite sufficient for the purpose. As there are so many steam pumps on the market now, each capable of doing the work. I leave you to get whichever you deem best. I have worked Blake's and Evan's pumps; both are suitable for the work.

— Mr. David Jones writes from Sungei Lembing, under date of

Blake's and is van's pumps; both are suitable for the work,

— Mr. David Jones writes from Sungei Lembing, under date of
July 6 as follows: Pollock's. No. 1 below adit. The intermediate
stopes in A and B winzes continue to turn out first-class tin ore.
The lode in the stope from A winze is from 3 to 12 feet wide. The
lode in B winze stope is from 4 to 6 feet wide. No. 2 below adit
was advanced 42 feet, total 199 feet from crosscourse. I am sorry
to say that the lode here is still unproductive, containing spots of
converged blands only. The drive was kent the first part of the copper and blende only. The drive was kept the first part of the month towards the hanging wall, when we cut through to the country rock, and as we did not find anything profitable in that country rook, ac as we did not and anything prohable in that direction the drive was again turned towards the footwall. The lode is from 7 to 8 feet wide. In the intermediate stope above there is good tin on both walls of the lode. I put men the beginning of this month to crossest south for a few feet. At 40 to 50 feet back from the face of the drive a rise was started, and we have risen 9 feet. The lode is big, but unproductive, although there is a little formation making on the footwall similar to what is in the lode in the stope above. I intend this month to start a wince down from the west call of the stope this month to start a winze down from the west end of the stope following the tin, to see where the tin will lead us, and prove whether it is making down. No. 3 below adit was driven 13 feet in the same it is making down. No. 3 below adit was driven 13 feet in the ame direction as the month before, and as the small vein we were following was turning too much to the south, I stopped the men and brought them back to a point 9 feet west from where the face of the drive was at May 1, and put them to drive on a small vein on the north side af the drive, and when in only a few feet we came across a very rich patch of tin (of which three sample stones have been forwarded to London), but the tin ground only proved to be 7 to 8 feet in length and 3 to 4 feet wide. The tin made from the widdle of the drive answerd, it did not carry down. I have driven be 7 to 8 feet in length and 3 to 4 feet wide. The tin made from the middle of the drive upward; it did not carry down. I have driven on this vein 15 feet. For a few feet after we lost the tin the drive went through a floor of partly decomposed white spar 2 to 3 inches thick, dipping 8.f., and it is not unlikely that this floor has carried the tin with it. There is a lot of water making along the course of this floor, and I notice since this water has been tapped the water in No. 2 has largely abated. I put two men this month to open up on the patch of good tin ground met with in No. 3 to see what it will make.—Willinks's adit. As I mentioned in my last report, work was resumed here on adit. As I mentioned in my last report, work was resumed here on the 1st of the month. The entrance of the drive has been cleared the 1st of the month. and retimbered, and the men started to work in No. 2 section. Lodd 5 to 6 feet wide, yielding very good ore. I set a party the 1st of the month to pet in a crosscut north from this stope to a winze sunk from No. 1 above, distance to drive about 70 feet. When connection is made it will improve the ventilation here, which is very had just now. We can also send the tinstuff obtained through this winze down to the main tram road from the No. I above in Nicholson section, where I set, the 1st of this month, a party of six men to drive east.—Campbeli's. Crosscut to Campbell's lode. Six men started to work here this month. I expect to intersect the lode by the end of the present month or early next month, where I expect

the end of the present month of early next month, where I expect to meet with payable tin ore,
VICTORY CHARTERS TOWERS,—Mine manager's report for fortnight ending July 13.—No. 1 shaft, During the past fortnight stoping has been carried on above No. 2 level on Papuan reef, south side of underlie. The reef will average 10 inches. The quality of the stone is looking about the same. I do not think there is any improvement in it. You will see by the pay-sheet that the number of hands are reduced here. I have them working at No. 3 shaft. There has been hauled from this shaft for the fortnight 25 tons. Total at surface 110 tons.—No. 2 shaft. The crossdrive at the 230 fact level has been desired. 320 feet level has been driven 7 feet, total 28 feet. There is no change here to report. The country is still keeping very hard; no sign of meeting any formation yet. In the No. 1 A the rise is up 60 feet from back of drive; the width of the rise is about 30 feet. The stone here is very irregular in patches through the formation of from 6 to 30 inches. At present it is going up almost vertical. Intermediate, between this drive and No. 1 A, the reef is about worked out; this week will finish it. In driving this level we left a small reef under foot. I intend seeing what it is like as soon as we have finished above. The winze in No. 7 level has been suck 9 feet for the fortnight. Present depth 57 feet. There is 18 inches of fair-looking reef in the bottom. In the rise at bottom of underlie the reef is small—about 6 inches, average quality. There has been hauled from this shaft 70 tons for the fortnight.—No. 3 shaft. The water chamber is about finished. There is 22 feet of timbering to be done in shaft, and pump to put in its place. I expect to be working in bottom of shaft next Wednesday. The surface work in connection with shaft will be finished next week. surface work in connection with shaft will be finished next week.

— The sales of coal in connection with the Nerbudda Coal and Iron Company (Limited) for the month of July are 401

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AUSTRALIAN BROKEN HILL CONSOLS.— The mining manager reports by mail for the fortnight ended July 18: Block 96, Israel east proppeding drive No. 4 rise stopes, east drive No. 1 rise driven 13 feet 6 inches, total 26 feet 6 inches. The lode is small, consisting of iron and quartz. South-west stopes driven 3 feet. The ode here not looking encouraging, the men have been transferred to continue rising the morth-east stope. North-east stope driven 10 feet. The lode is small, consisting of iron and quartz. Rise 10 feet. The lode is small, consisting of iron and quartz. Rise nar shaft driven 14 feet, total 23 feet. The lode here is a little narower. Galena has been met with in carbonate of iron. 280 level west driven 18 feet, total 24 feet 6 inches. The lode is well-defined, else no change.—Incline. No. 6 rise east driven 9 feet 61 ches, total 47 feet. The lode is consisting of carbonate of iron and calcite, is well-defined, and country still hard, and the water is alightly increasing. No. 5 level east, No. 1 rise driven 4 feet 6 inches, total 23 feet 6 inches; no change; the country is very 12 feet. The men working here have been engaged in cutting out 16 notations for a dam in 280 level east.—D'amond drill. Diamond drill is wo king well, and No. 2 hore is now down 134 feet.—Note. The quantity of rock mined during the fortnight was 2592 cubic fiet.

REITISH BROKEN HILL PROPRIETARY.—Mine manager's

lounce 17 dwis. 18 grains silver, copper nil. Putting in crosscuts both on Sania Fé side and other side of dyke. Providencia Aver rise No. 2 siens 6 feet, total 42 feet. Assays 2 dwis. 17 grains gold. 2 ounces 7 dwis. 12 grains silver, and 1:35 per cent. copper. Not looking as good as last reported. Santa Fé Hill No. 3 driven 4 feet 6 inches total 99 feet; no change. Pine Creek No. 2 driven 12 feet, total 10 feet. As we judge we are approaching contact. We have assended until San Francisco is pumped out, as any influx of water on this side would drown out pumps. Pine contact driven 23 feet, total 23 feet. Sylva contact driven 22 feet, total 22 feet. In both these last drifts ore is met with, though not in paying quantities, showing evidences of a heavy squeeze sometimes in the igneous rock.

or a foot or two away in a hard chert-looking rock. Taylor main extension driven 3 feet 6 inches, total 646 feet. Assays 6 grains gold, 1 cunce 4 dwts. 12 grains silver, and 0.45 per cent. copper. — Extraction. Santa Fé Hill extracted 48 tons. Assays 1 cunce 6 dwts. gold, 9 cunces 9 dwts. silver, 3.93 per cent. copper. Santa Fé stopes extracted 211 tons. Assays west, 4 dwts. gold, 2 cunces 11 dwts. silver, and 1.22 per cent. copper; east, 7 dwts. 12 grains gold, 4 cunces 8 dwts. 12 grains silver, 2.3 per cent. copper. Taylor No. 3 extracted 41 tons. Assays 16 dwts. gold, 7 cunces 17 dwts. silver, 3.64 per cent. copper. Old Providencia extracted 346 tons. Assays 18 dwts. gold, 11 cunces 3 dwts. silver, 4.5 per cent. copper.

CRESCENT GOLD.—Fortnightly report of Mr. T. G. Davey, superintendent, dated July 19: Crescent Mine. The south tunnel has 34 feet, total 73 feet. Quartz veins continue to be met with, and the rock is very favourable for driving; the contractors making good headway. D ive north of shallow tunnel towards north shoot advanced 44 feet, total 63 feet. The lode continues as when last reported, having a most promising appearance, and carrying colours of gold. The contractors here are also doing good work, and the north shoot should soon be reached. We are about to put un a rise on the south shoot at a point from which the last most satisfactory mill test was taken. The main object of this rise is to promote ventilation at this section of the mine, and thus enable us to drive south towards the continuation of the auriferous stone which has been disclosed by a number of surface cuts or trenches.—Orlando Mine. The Orlando deep tunnel has only advanced 5 feet. Much time has been taken up in forming and securing the mouth of the tunnel, which was very dangerous on account of the precipitous nature of the hillside, and in procuring a stock of timber, &c. All is now in order, and better progress will in future be made by the contractors.—Tramway and water race, These are now being finally levelled, and ten

1—1000 feet level north of No. 2 crossont east. This was started on the load from the end of the crossont, and has been driven 20 feet south of No. 2 crossont east. This was started on the load from the end of the crossont, and has been driven 16 feet bloches. The load is of feet wide, assaying 1 counce.—800 feet level north. The load is the stope in the back of this level is 2 feet wide, assaying 1 conce d dwize, 19 grains.—800 feet level north of crossont. This sand has load is 4 feet wide, assaying 1 conce 13 dwize. The wines in the loads of the load south 13 feet, making a total depth of 05 feet 6 inches. The loads is 2 feet 6 inches wide, assaying 1 conce 13 dwize. The wines in the loads of 15 dwize, 15 grains.—The loads is 2 feet 6 inches wide, assaying depth of 05 feet 6 inches. The loads is 2 feet 6 inches wide, assaying 6 dwize. It is stoped in the loads of the load being 2 feet 8 inches, giving an average width of the load being 2 feet 6 inches, the stope in the level is 2 feet wide, assaying 6 dwize. 12 grains.—780 feet level north on one chute. There are fire stopes in this level, the average width of the load being 2 feet 6 inches, giving an average assay of 12 dwize. The crossout east in this level, the average width of the load being 2 feet 6 inches, giving an average assay of 12 dwize. The crossout east in this level, the average width of the load being 2 feet 6 inches, giving an average assay of 12 dwize. The crossout east in this level, the average width of the load being 2 feet 6 inches, giving an average assay of 8 dwize. 2 grains.—200 feet level south of crossout. There are for a plat.—201 feet level north of the shaft for a plat.—201 feet level north of the shaft for a plat.—201 feet level north. The load is 1 foot wide, assaying 4 dwize. 13 grains.—200 feet level north. The load is 1 foot wide, assaying 4 dwize. 13 grains.—200 feet level north. The load is 1 foot wide, assaying 4 dwize. 13 grains.—200 feet level north. The load is the stope in the load of this level, the average width of

windlass baling it, consequently it is impossible to obtain, with hand-labour, only, any sati-factory progress in the sinking, and, further, it is a most difficult matter to get a contractor to even continue working for any length of time. We have, therefore, been obliged, for the present, to suspend the work at this shaft. NUNDYDROOG,—Thomas Richards, August 6: Report for the fortnight ending August 3:—Taylor's shaft. The 1240 feet level south has been driven 12 feet, total distance 41 feet 6 inches. Lode 6 inches wide, assays 1 dwt. 6 grains gold per ton. The 1240 north has been driven 14 feet, total distance 62 feet 6 inches. Quartz 6 inches wide, assays 2 dwts. 12 grains. In the stope in the back of the 1000 north the lode consists of quartz 2 feet wide, assays 1 gl counce 8 dwts, 18 grains. The 920 north has been driven 16 feet, total distance 193 feet. Lode 1 foot wide, assays 3 dwts. 18 grains. In the stope in the back of the 760 north the lode is 2 feet 6 inches wide, assays 7 dwts. 12 grains. The lode in the stope in the bottom of assays 7 dwts. 12 grains. The lode in the stope in the bottom of the 680 north is 2 feet wide, and assays 3 dwts, 18 grains. In three stopes between the 600 and 520 levels north the lode averages 2 feet 2 inches in width, and 7 dwts. 12 grains in assay value. The lode in

the stope in the back of the 520 north is 2 feet wide, and assays 7 dwts. 12 grains. In the stope in the back of the 300 north the lode is 1 foot 3 inches wide, and assays 11 dwts. 6 grains. Main shaft has been sunk 7 feet, total depth 14 feet 6 inches below the shaft has been sunk 7 reet, total depth 14 reet 6 inches below the 1080 level. The lode 3 feet wide, with stringers of quartz, assays a trace of gold. The 1080 level north has been driven 22 feet 6 inches, total distance 161 feet. During the fortnight this drivage has been passing through the crosscourse met with in the levels above, but the lode has proved auriferous throughout, the present assay value for a width of 5 feet being 1 ounce 1 dwt, 6 grains. The 1000 north has been driven 9 feet, total distance 334 feet. The lode is 4 feet wide with stringers of carety carrier arrange of the stringers. north has been driven 9 feet, cotal distance 334 feet. The loof is 4 feet wide with stringers of quartz, carrying a trace of gold. The 1000 north rise has been put up 24 feet 6 inches, total height 49 feet, Lode 2 feet wide, assays 1 conce 18 dwts. 18 grains. In the stope in the back of the 920 south the lode is 6 feet wide, and assays 1 conce 16 dwts. 16 grains. In the two stopes in the back of the 840 couth the lode averages 4 feet 6 inches in width, and 10 dwts. in assay value. The 680 south from north crossout east on main lode has been driven 8 feet 6 inches, total distance 17 feet. dwts. in assay value. The 680 south from north crosscut east on main lode has been driven 8 feet 6 inches, total distance 17 feet. The lode is 1 foot wide, with quartz stringers; is of no value. The 680 north on Kennedy's lode has been driven 13 feet, total distance from crosscut west has been extended 8 feet, total distance 171 feet. No change. The 520 north from crosscut east has been driven 23 feet, total distance 74 feet. Lode disordered and of no assay value. The 370 crosscut has been extended eastward 11 feet, total distance 83 feet, total distance 74 feet. Lode disordered and of no assay value. The 370 crosscut has been extended eastward 11 feet, total distance 88 feet. The drivage has now been turned north upon a lode rassed through at 82 feet in the crosscut. Kennedy's shaft has been sunk 9 feet 6 inches, total depth 70 feet below the 600 feet level. The 600 south has been driven 21 feet, total distance 139 feet. Lode 2 feet 6 inches wide, assays 5 dwts. The 600 north has been driven 27 feet, total distance 187 feet 6 inches. Lode 1 foot 6 inches wide, assays 2 dwts. 12 grains. The 520 south has been driven 18 feet, total distance 627 feet. Quartz 6 inches wide, assays 1 dwt. 6 grains. The 520 north crosscut west has been extended 21 feet, total distance 74 feet 6 inches. No change. The 440 south has been driven 27 feet 6 inches, total distance 1066 feet. Lode 3 feet wide, assays 2 dwts. 12 grains. The 440 south rise has been put up 1 foot 6 inches, total height 106 feet, and communicated with the 370 feet level by a crosscut east of 12 feet. In the stope in the back of the 440 south the lode is 2 feet 6 inches wide, and assays 1 onne 2 feet 6 inches, total distance 761 feet. Lode 3 feet wide, asaays 3 onnes 5 dwts. In two stopes in the back of the 370 north the lode is 10 feet wide, and assays 1 onne 2 dwts. 12 grains. The 370 south from north crosscut west has been driven 15 feet 6 inches, total distance 56 feet 6 inches do the 370 north the lode eaverages 5 feet in width, and 2 ounces 2 dwts. 12 gra

2 ounces 2 dwts. 12 grains in assay value. The 370 south from north crosscut west has been driven 10 feet 6 inches, total distance 56 feet 6 inches. Lode 6 inches wide, is of no assay value. The 300 south has been driven 26 feet 6 inches, total distance 666 feet. Lode 1 foot wide, assays 3 ounces 7 dwts. 12 grains. In the stope in the back of this level quartz 4 inches wide, assays 1 ounce 6 dwts, 6 grains. The 230 feet level south has been commenced from the stope on the south side of north shaft, and extended 2 feet 3 inches, total distance from north shaft 15 feet. Lode 9 inches wide, assays 8 dwts. 18 grains. In the stope in the back of the 160 feet level north, the lode 3 feet wide, assays 1 ounce 1 dwt. 6 grains. North shaft has been sunk 2 feet 6 inches, total depth 65 feet 6 inches below the 520 feet level. Lode 1 foot wide, is of no assay value.—Assay report. Old mill samples. Pulp, 1 ounce 1 dwt. 6 grains; tailings, 3 dwts. 18 grains. New mill samples. Pulp, 1 ounce 13 dwts. 18 grains; tailings, 4 dwts. 18 grains.

NEW CLEWER ESTATE,—According to a cablegram received from the head office of the above company, it was resolved at the extraordinary meeting of shareholders, held at Johannesburg, that the offer for the amalgamation of this company with the Lydenburg Mining Estates (Limited) be accepted. According to the terms of the agreement the New Clewer Estate and Gold Mining Company (Limited) in exchange for all its property and assets, will receive 50,000 shares in the capital of the Lydenburg Mining Estates (Limited).

PINNION —The sequences of a sinches and content of the following.

Company (Limited) in exchange for all its property and assets, will receive 50,000 shares in the capital of the Lydenburg Mining Estates (Limited).

PUNJOM.—The secretary advises the receipt of the following report for June from Mr. Blamey, the manager at the mine:—Mining. August shaft, 200 feet level. The No. 2 cast crosscut has been extended a further distance of 24 feet 6 inches, making it 377 feet 6 inches from the main north crosscut. Nothing of value was met with, however, and, as it is out beyond the supposed course of Gillies reef, work there was discontinued, and the men brought back to open up north and south on the course of the ore passed through in the early part of last month, and referred to in my last report. The ore we are driving on shows both copper and iron pyrites, but up to this is not of sufficient value to mill.—Intermediate 140 feet level. All the stopes here continue to give their usual quantities of ore for the mill, and are without change to notice. The new shaft will connect with this level within the next two days, when, after putting in the necessary timbers for the plat, it will be continued down to the 200 feet level.—110 feet level. The only work going on at this point is the sinking of the new shaft, which, as just mentioned, will connect with the intermediate within the next two days, We shall now prepare for driving a crosscut east to intersect the course of Gillie's reef at this level.—Upper stopes. These having become exhausted, work there has ceased. The small leader discovered in the north side of these stopes near the surface continues to yield ore of very good quality, and gives promise of doing so for some little time longer.—Gillie's reef, mill gully tunnel. The north drive here has been extended 45 feet, making it 357 feet from the month. It continues to give ore of fa'r grade for the mill, but I regret to say the roef is very much disturted in places by the intrusion of dyke matter. The winze we were sinking at the date of my last report got entirely into dyke form via., 720 tons of ore from the mine for 347 ounces 4 dwts. gold, and 197 tons headings for 29 ounces. You will see the quantity of ore milled is much below our average, and as this is owing to the wornout state of the old battery—the foundations of which are quite rotten—we have decided to take it down and re-erect it, using only the very best timber in both the foundations and frames. This is a pretty big job, but I am hoping it will be done without materially decreasing our monthly output of gold.—C; anoide works. This was carried on to the 1st inst, when a stop was made for the clean-up. The result was sent you in due course, so I need not refer further to it here. It is now running on tailings with about 5 per cent, of The result was sent you in due course, so these two retailed to it here. It is now running on tailings with about 5 per cent, of concentrates, and as Mr. White assures me his extractions are good concentrates, and as Mr. Write assures me in extractions are good and the material operated on of very fair grade, I am hoping for fairly good results this month. We shall clean up on the 3rd proximo, by which time 750 tons will have been treated forthe month. Of course, I need not tell you that there are many little stoppages in the work, owing partly to the men being new to it. A small battery has been erected to crush the lumps of oxidised tailings and concentrates, which is doing its most result indeed and as this is run of the water-wheel the work very well indeed, and as this is run off the water-wheel the cost is trifling.—General. We are giving due attention to all work coming under this head.—Labour. The supply of this is without change.—Health. This I am pleased to say is much better, the influenza and broughitis having almost entirely left the camp.—Rain fall. This has been most enusually low, the total being I inch only

A NEW ANGLO-APRIGAN PAPER.-We have received the first number of the African Critic, a new venture in Anglo African journalism, which will be edited by Mr. Henry Hess, founder and editor of the Johannesburg Critic. A publication such as this will doubtless be welcomed by those interested in the subjects it

THE MOUNT BISCHOFF TIN MINING COMPANY.

THE following is the report of the directors of this company, submitted to the shareholders at the general meeting of the company, held at Launceston, Tasmania, on Wednesday, July 31 last:—The accounts submitted at the last general meeting showed a balance to the credit of the profit and loss account of £32,909 14s. 5d., to which has since been added the sum of £23,391 18s. 7d., being the earnings of the past half-year, making a total credit of £56,301 13s. Of this sum, £19,500 has been distributed in dividends, £2600 5s. paid for income tax, and £47 5s. 83. for interest, leaving a balance of £34,154 2s. 4d. to the credit of the account. In addition to the ordinary expenses of the mine, £594 11s. 6d. has been expended in connection with the water-races, dams, &c., and £1297 7s. 2d. in the purchase and erection of new plint.

MINE MANAGER'S REPORT. MINE MANAGER'S REPORT.

Operations during the past six months have been as follows:—
White Face. The porphyry cutting has been the main source of
supply of crushing material from this face, and has yielded 7550
tons. The stone has been of fair quality, the only drawback being
the large quantity of pyritous stone, which not only reduced the
quantity to be crushed, but caused trouble and expense in its removal and stacking for future treatment. The dimensions of the
cutting are as follows:—Length, 274 feet; width, 150 feet; and the
height about 70 feet. The only other work carried on outside the
cutting is the breaking out of gossan ore further west, but as only
two men are employed, the result is not materially affected. In
connection with the other works referred to in my last report, I
have to state that the adit has been completed to the shaft, the distance driven, including chamber, being 228 feet, and the drive is nave to state that the acit has oeen completed to the share, the distance driven, including chamber, being 228 feet, and the drive is sufficiently large for a double tramroad. The foundation for the first hopper is laid, but it will be necessary to thoroughly secure the ground before any attempt is made to put up a rise and construct a pass, as at this point the porphyry dyke makes a junction with the slate, and there is, consequently, a weakness in the formation—the porphyry being hard, and the slate soft. The tramroad will be completed as even as reasible but daying the construction of the becomporphyry being hard, and the slate soft. The tramroad will be completed as soon as possible, but during the construction of the hopper only one line will be used.—Slaughter-yard face. Two new faces have been opened and are now being worked, being situated respectively north and south. The northern face was started at a lower level, and is now in gossan ore, some of which is of very good quality. The southern face is also yielding a fairly good sample of stone, but it is hard and requires shooting; the stone rests on a slate horse, and breaks well.—Brown Face. A large portion of this face has been worked. At the eastern portion, near the Stanhope Company, where the ground is shallow, I have obtained permission from the manager of the company to remove the tailings and material has been worked. At the eastern portion, near the Stanhope Company, where the ground is shallow, I have obtained permission from the manager of the company to remove the tailings and material from beneath their tramroad, on the understanding that the line is to be made good. The other portions of the face have been worked in the usual way, with very fair results. During the wet weather we had a few landslips, without causing damage; in fact, the result was beneficial, as it obviated the necessity for breaking the dirt. The only part giving any trouble is where the slate on the northern wall, becoming broken by rain and frost, when the falling mixes with the crushing material; and as the dirt lying next to the wall carries a fair proportion of tin ore, its separation is imperative, and is troublesome and expensive. A large portion of this dirt is so soft that it offers little resistance to the stampers, and has to be mixed with stone to render it suitable for crashing. Two men are genployed at a higher level, between the eastern boundary and Brown Face outcrop, where there is some very good dirt, which is used as economically as possible for mixing with inferior quality. The dirt obtained from the old 13 feet face consists principally of porphyry and porphyry sand of a rather poor quality, but other parts in the vicinity show dirt of a better description. On the soothern wall and close to the porphyry dyke just mentioned, there is a good-sized vein of ore lying close to the slate and thinning out east and west, which helps to regulate the output for the present. No work has been done at this incline face against last report awing to the convein of ore lying close to the slate and thinning out east and west, which helps to regulate the output for the present. No work has been done at the incline face since last report, owing to the connection with the Queen lode crosscut and the large quantity of dirt which can be obtained from the shallower levels; and as these are worked out the ground is prepared for deeper levels. Altogether this face looks well, and gives good promise for profitable operations in the future. In the prospecting drive only one man has been employed, and it has been extended 11i feet, making the total length 263 feet. In the last 30 feet driven several ore veins of no commercial value were passed through, but they are well worth following as soon as better ventilation can be obtained. To effect this another drive will have to be put in at a higher level, and connection made by a winze. The ground in the present drive is rather hard, but by driving at a higher level softer ground will be met with, and there is also a better ground in the present drive is rather hard, but by driving at a higher level softer ground will be met with, and there is also a better chance of finding good ore. This work will be commenced as soon as an improvement in the weather takes place. The crosscut to the Queen lode was completed on February 19, and the lode which proved to be small was broken into. Since then the crosscut has been driven 197 feet, and the eastern drive 124 feet, other drives 160 feet, and 55 winges sunk. In addition to this a large amount of stoping has been done. Where work on the lode was commenced it was rather small. 197 feet, and the eastern drive 124 feet, other drives 160 feet, and 55 winzes sunk. In addition to this a large amount of stoping has been done. Where work on the lode was commenced it was rather small, but it will probably increase in size as it is risen upon and worked eastward. The lode has hitherto been worked with one or two shifts as men could be spared, as I consider work of this kind of secondary importance to procuring crashing material for the batteries.—North valley. At the end of March it was evident that the lode had dipped under foot, the country rock being distorted and difficult to work, and that it would involve a large expenditure and a great length of time to effect a connection with the Brown Face formation by the No. 2 adit. Estimating the distance still to be driven at 1600 feet, and bearing in mind that there is little prospect at present of opening new ground in this direction. I decided to discontinue driving the tunnel, and later on prospect the formation by following down the ore veins below the main tunnel. The No. 2 adit has been driven 94 feet during the past half-year, making its total length 1836 feet.—Waratah. For the first time in the history of the mine the works at the mine and Waratah were kept in full operation during the summer season, owing to the abundant supply of wa'er obtainable from the reservoirs, and consequently all repairs and alterations had to be effected in such a way as to interfere with the shed work as little as possible. The whole of the machinery is in good condition and working well. The material treated is as follows:—60 H.B., 35,990 tons, producing 330 tons 6 cwts, 1 qr. ore; 15 H.B., 10,025 tons, producing 232 tons 16 cwts. ore. The repairs to the sheds, referred to in my last report, have had constant attention, and will require some time to complete, and I find that it will be necessary to put in new slime and settling boxes, as well as to overand will require some time to complete, and I find that it will be necessary to put in new slime and settling boxes, as well as to overhaul the 40 feet water wheel,—Slime sheds. All the machinery has been kept in good working order, and some slight improvements have been effected in the working of the slimes. The output for the six months is 66 tons 1 cwt. 3 qrs.—70 feet shed. There is nothing new to report from these sheds. The machinery is in first class order, and has worked most efficiently. The output is 58 tons 2 cwts. 1 qr.—Ring-tail shed. At this shed work has been intermittent on account of the supply of material from the mine having been irregular. The output is 8 tons 9 cwts.—Catch'em shed. The work which has hitherto been carried on at this shed will in future be transferred to the Ring-tail shed, and I am of opinion that by the adoption of this plan there will be a considerable saving in working expenses. Fwo carpenters are now engaged in erecting the framework, and haul the 40 feet water wheel. Slime sheds, All the this plan there will be a considerable saving in working expenses. I'wo carpenters are now engaged in erecting the framework, and good progress has been made with the dressing floor, but the present severe weather seriously retards the work. The output is 32 tons 9 cwts, 2 qrs.—Tributes. The quantity of ore obtained by the tributors for the past half-year is 2 tons 12 cwts. 2 qrs. 7 lbs.—Stone-breakers. Two of these machines have been kept fully employed, and have only required slight repairs, but No. 1 will shortly need attention, as the hopper and other timber work require renewal. No. 3 machine is erected and ready for work, but is not at present required.—Workshops. The mechanics have been constantly employed in the manufacture of new plant and effecting repairs,—

Foundry. In this branch the workmen have been fully engaged with iron and brasswork, and I can only reiterate the remarks contained in my previous reports that its importance cannot be over-estimated. Flumes, races, dams, and reservoirs. The race conveying water from Waratah to the Ringtail shed is now in good order and most effective. With the completion of the new reservoir the construction of the Falls creek water supply scheme is completed, and with the exception of trifling repairs from time to time the works will not eviall any further expenditure for a considerable period. The reservoin at the mine are now in good condition, an iron pipe having replaced the wooden outlet box in the lower reservoir. On the Fossey line of race the flumes, trestling, and stringers have nearly all been replaced with new material. The renewal of the water culvert by the substitution of 453 feet of 2 feet iron pipes for the woodwork in the shallow portion, and the retimbering of a further length of 330 feet has involved considerable labour, and the completion of the work will probably occupy another month —Water supply. As already stated the supply of water has been ample for all our requirements during the past bat-year.—Railways and tramways. The closest attention has been given to all the lines, and they are in good working condition.—Rolling stock. The locomotives are in good order, having had a thorough overhaul, but a considerable number of the wooden frames of the trucks will require renewal as they have been rendered worthless by rot, and carpenters are now engaged with this work.—Electric light. With the exception of a slight interruption to the lighting caused by a trifling accident to the dynamo the p'ant has worked most efficiently.—Buildings. No new buildings have been receted, but repairs to a large extent have been executed. The quantity of ore obtained during the past six months and since the formation of the company is as follows:—Obtained during the last is months, 1138 tons 19 cwt. 1 qr. 19 lbs; since the fo

SMELTING MANAGER'S REPORT.

SMELTING MANAGER'S REPORT.

The smelting operations for the half-year ending June 30, 1895, have been as follows:—The total quantity of ore smelted is 1883 tons 7 cwts. 2 qrs. 23 los., yielding 1261 tons 19 cwts. 1 qr. 12 lbs., yielding 767 tons 14 cwts. 3 qrs. 2 lbs. of tin, was smelted on account of the company, and 719 tons 8 cwts. 1 qr. 4 lbs., yielding 494 tons 4 cwts. 2 qrs. 10 lbs. of tin, on public account. The average assay of the refined tin is 99-88 per cent, and the slag 5-3 per cent. The furnaces and tin is 99.88 per cent., and the slag 5.3 per cent. p'ant are all in good working order.

MINING NOTES FROM JOHANNESBURG

By H. BUSH. M.E.

Metropolitan Mine.

This is one of the most improved mines on the Rand, and during the next few months there will be a considerable increase in the returns. The lower levels have improved fully 4 dwts, in the assays.

Buffelsdoorn. Owing to the Black reef opening out so rich, it is expected that there will be subsidiary companies floated to open up these

Benoni Gold Mines.

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This is the plum of the year and with 284 claims, and the Chimes and Kleinfontein reefs opened up, it will be one of the biggest mining propositions on the East Rand.

Chimes West.

age assays of 25 dwts. are being obtained from 3 feet of This mine is opening out even better than was expected.

Venterskroon Gold Mining Company.

Some very rich strikes ares are being made. The reef as it is opened up gives pannings of nearly lounce per ton. They expect to cut the reef at a deeper level within a few weeks. This district generally is looking well.

Steyns.

The main shaft is to be started on the Deep Level block to pen up the Main reef series

Randfonteins.

It is thought that there will be ten subsidiary companies formed from this estate. The North Randfontein is the richest and cheapest of the group.

Vestas (Black Reet).

The reef on this property is very good, and the future pro

Mr. Lewis also cables from Johannesburg as follows: -Anglo French Exploration Company has succeeded in floating Benozi Mines. Claims 284; company formed with a capital of £250,000; working capital, £130,000. Has opened up Kleinfontein Chimer reefs. Also has succeeded in floating Kleinfontein Centrals, 163 claims. The mine will undoubtedly become a very valuable property.

TIN TICKETING.

TICKETING for tin ores was held at Tabb's Hotel, Redruth on Tuesday, with the following result: - values of ones sold by each mine.

	Tons	Tons cwts.			Per ton.				Value.	
Mines.				£	B _x	d.		£	8.	d
Wheal Greaville	20	0		£41	- 5	0	*****	£825	0	0
do	16	0	******	41	2	6	*****	658	0	0
Carn Brea No. 1	15	0		32	15	0	*****	491	5	0
do No. 1a	14	0	*****	32	17	6		460	5	0
do No. 2		10		24	7	6		36	11	3
Dolcoath No. 1		0		39	12	6		594	7	6
do No. 1a		0		39	17	6		598	2	6
Tincroft	e 4	0	*****	33	0	0		462	0	0
do	2.4	0		33	0	0		462	0	0
Wheal Basset No. 1	25	0		41	7	6	*****	1034	7	6
South Frances United No.		0		38	2	6	*****	495	12	6
do No. 1a		0		38	5	0	******	459	0	0
East Pool a		0	******	36	5	0	******	580	0	0
do No 2		10	*****	16	12	6		24	18	9
West Kitty		0	*****	41	7	6		537	17	6
Killifreth	0.40	0	******	37	2	6		445	10	0
Phoenix United No 1		0		39	17	6		358	17	6
do No. 2		10	******	34		0			12	6
West Frances		0	******	37	-	0	******	412	10	0
Saint Agnes Beach		0	******	34	-	0	******	345	0	0
South Condurrow		0	******	41	-	6		289	12	4
South Conduiton	**	0	*****	3.6		9	000000	200		-
	256	10					£	9656	10	0

256 10 Average price per ton, £37 13s. 0d.

Total purchases:—Carvedras, 20 tons, £1121 7s. 6d.; Chyandos, 32 tons, £1193 2s. 6d.; Williams, 35 tons, £1328 8s. 9d.; Trereife, 55 tons, £1331 10s.; Redruth 12 tons, £477 10s.; Penpol, 76 tons, £2799; Cornisb, 31s. tons, £1405 11s. 31. Total—2563 tons

2		AVERA								
	July July July	2£36 16 36 30 37	15 9 17	0 9 7	A	ng. 1 ng. 2	3	£37	13	0

MISCELLANEOUS MEETINGS.

NORTH STAFFORDSHIRE-TRAMWAYS, LIMITED

Tranways Company (Limited) was held on Tuesday, at the Galidhall Tavero, Gresham-street, E.C., Mr. W. J. CARRUTHERS-WAIK, A.I.C.E., presiding. HE 29th ordinary general meeting of the North Staff rdshire

The SECRETARY (Mr. J. G. B. Elliot) read the notice convening

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The Seneraby Company (Limited) was held on Tuesday, at the Gelidahi Tavero, Gresham-street, E.C., Mr. W., J. CARRUTTHERS (Mr. X.). G. B. Elliot) read the notice convening the mesting.

The CHAINTAN Said: Gentlemen—With regard to the figures of the histon. It may say we are not singular in not showing a good the histon. It may say we are not singular in not showing a good the histon. It may say we are not singular in not showing a good the histon. It may say we are not singular in not showing a good the histon. It was the helf-great the beginning of the year I may tell you of the histon. It was the beginning of the year I may tell you of the histon the histon. Then, again, they naturally, like we, so we had to be a supposed to the property of the year I may tell you of the histon the histon carrying on traffic in the face of one of the mist series with difficulties in carrying on traffic in the face of one of the sast series with the company of the same state of the company of the company of the sast series of the company of the sast series with the sast series of the sast series with the sast series of the sast serie money or undertake to work a line for a limited time like that. I am happy to say that the local authorities agree that if we do put up an installation of this character, they are prepared to extend our lesse for a considerable period; or rather, to put it in a more technical way, they are prepared not to exercise their powers to purchase under the 43rd section of the Tramways Act, 1870, for a very much longer period than we at present enjoy. I may be wrong, but that I think is the best way in which to go to work with local authorities. They wants comething from you, and you naturally ask something from them, and if you can agree upon the principle I do not think there will be very much difficulty about the details. When a properscheme is matured for the working of the line by electricity, and when all the necessary preliminary arrangements have been made by the local authority, and before anything is done which will commit you absolutely, you will be called together, and the fullest details will be laid before you, and your approval will be asked to any agreements which we propose to enter into. Whatever further steps are taken with regard to the extensions, before anything is done which would commit you in any way to them financially, or seen in the improvement of the permanent way, your opinion will be one which would commit you in any way to them financially, or even in the improvement of the permanent way, your opinion will be asked, and you will be, as you always have been, taken into our fallest confidence, so that we shall be able to know that in what we are doing we have the assurance of your fullest support. Before I sitdown I would like to say one word on a personal matter to which I will only aliude in the briefest possible terms. There are men whose position sometimes even in a small way marks them out for present a track. I aliude to this simply because even extents are considerable.

Personal attack. I allude to this simply because some attacks some-times find their way into newspapers circulating in the locality which this line serves. To honest criticism from intelligent critics no one can possibly object. On the contrary, well-directed intelligent criti-cism is very useful. But I consider contemptacusly the captious, cavilling criticisms of ignorant people. I beg to move the adoption of the report and accounts. Mr. Alderman E. J. HAMMERSLEY, J.P., seconded the motion, which was carried after some discussion.

A dividend at the rate of 6 per cent, per annum on the preference bares and 3 per cent, per annum on the ordinary capital for the half-year was declared, and a cordial vote of thanks was passed to the Chairman, directors, secretary, manager, and staff.

CROYDON TRAMWAYS (LIMITED).

The eleventh ordinary general meeting of the Croydon Tramways Company was held on Tuesday, at the Guildhall Tavern, Mr. CARRUTHERS-WAIN presiding.

The SECRETARY (Mr. J. G. B. Elliot) read the notice convening the meeting.

Company was held on Tuesday, at the Guildhall Tavern, Mr. CARRUTHERS-WAIN presiding.

The SECRETARY (Mr. J. G. B. Elliot) read the notice convening the meeting.

The CHAIRMAN said: I beg to move the adoption of the report and accounts submitted to the meeting. It is a very gratifying fact that during the latter half of the half-year we were able to retrieve the loss that we made in traffic, in common with most other companies, during the severe winter, and to show an increase which I think, having regard to the the smallness of our line and our traffic generally, is exceedingly satisfactory. (Applause.) As to the expenses, I hope you will be gratified to find that they show a slight diminution. Various small causes have been at work, but for which they would have been still lower; with these, however, it is scarcely necessary for me to detain you. It is satisfactory to find that the expenses do show a decrease. With regard to the new loop, that was authorised by your Provisional Order of last year, and it will be found of very great use in working the traffic on the Norwood-road. The Board of Trade, as you will observe by the report, have granted a renewal of our powers for a further period of a year for making the extension to Norbury. In the meantime I am happy to say that the London Tramways Company is gradually creeping down the bill from Brixton, and I have not the smallest doubt that before long they will gradually find their way to Norbury; and when our line is made to Norbury there will be a continuous line of tramway, about 13 miles long, right away from Westminster Bridge to South-end, Croydon, and in that way there will be a means of relieving the congested districts of London, and giving access to one of the most beautiful parts of Surrey to those who live cooped-up in Brixton, Wandsworth, and Battersea. There is just one little thing I ought to mention. I am sorry to say that the faintest touch of prosperity with a tramway immediately brings the assessment authorities down upon you, and your assess made by the Chairmen of all railway and tramway companies—that we seem to be looked upon as proper victims for spoliation by the assessment authorities. With regard to the connecting link between the northern and southern portions of our line, I have the greatest hopes that that will be made within a few months. I do not wish to promise definitely, but I think a few months now will see that line made, and that ought to be a source of considerable profit to the company with very little additional expense. With respect to the profit, I am sure you will agree with me as to the advisability of a small company like this, where the difference between the revenue and working expenses is so small, following the precedent which I ventured to establish here some years ago, with the concurrence of my colleagues, of not making any distribution for the Jane half-year, but waiting until the end of the year, when we can take not only a retrospective glance at the results of the half-year, but also a prospective glance at what is likely to happen with regard to forage and other matters in the coming year, and can make up our minds what to do with the balance of profit on the year. I am quite sure there will no: be any dissentient voice on that point. The review of past years' results is in the usual form, and shows a continuous improvement. The debentures are now all issued. I think it was mentioned last time that I took up the balance of them myself, the company being in want of money, and the directors being willing to let me have them at par. That shows I haves myself, the company being in want of money, and the directors being willing to let me have them at par. That shows I have a certain amount of confidence in the undertaking. (Applause.) Mr. W. STANSFIELD seconded the motion, which was carried

Mr. W. STANSFIELD seconded the motion, which unanimously.

On the proposition of Mr. Ohren, a vote of thanks was given to the Chairman, directors, secretary, manager, and staff for their able management of the affairs of the company.

The CHAIRMAN, in acknowledging the compliment, said that it would be quite impossible to find a staff more devoted to their work than that of the company. (Hear, hear.)

The proceedings then terminated.

LONDON, DEPTFORD, AND GREENWICH TRAMWAYS (LIMITED.)

The half-yearly ordinary meeting of the London, Deptford, and Greenwich Tramways Company was held at the Guildhall Tavern, on Tuesday, Mr. CARRUTHERS-WAIN presiding.

The SECRETARY (Mr. J. G. B, Elliot) read the notice convening

Greenwich Tramways Company was held at the Guildhall Tavern, on Tuesday, Mr. Carruthers-Wain presiding.

The Secretary (Mr. J. G. B., Elliot) read the notice convening the meeting.

The Chairman, in moving the adoption of the report and accounts, said that the half year, despite the exceedingly bad winter through which the company had passed, had not resulted unfavourably, inasmuch as they were able to show an increase of nearly £500 in their receipts. (Applause.) The expenditure, however, had increased, owing to a variety of circumstances, many unavoidable expenses having to be incurred to keep the line open, and a regular service running. It was gratifying to know that by reason of the decreased price of forage they were able to maintain their comparatively small stud of 240 horses at as low a figure as 8s. 2d. per week each—a resuit which he attributed in a large measure to the careful management of Mr. Paige, one of the directors, and Mr. Prior, the manager, who acted with him. As a natural consequence of the lines and cars getting older, they had had to spend more money upon them, in order to keep them in an efficient state of repair. If their cars were not keep in proper repair, they would not be passed by the police, and, therefore, they would not keep their lines in an efficient state of repair they would have continuous accidents occuring. They might, therefore, look upon the increased expenditure on those two items as a kind of an insurance against claims for compensation. With reference to the omnibus traffic, he regarded that as very satisfactory, innsmuch as it acted as a feeder to their tramways, and thus increased the profits of the company generally. They had arrived at a period when the quinquennial revaluation of property in the London district took place, and attempts were being made to put up the valuation of their line as being a profitable concern. Those attempts were naturally being resisted, as they had resisted successfully the London County Council's Valuation Bill, under which that bo possible for him either to imagine or to calculate. There was scarcely a suggestion made by the County Council which did not in some way affect the interests of tramway companies, and there was scarcely a project which they had formulated which would not in some way have damaged the interests of tramway companies, together with the interests of the general public. Let them take, for instance, the Bill recently promoted by the Council to enable that body to work all tramways, whether the Council leased the lines or not. In suggesting this they were attempting to over-ride the Standing Orders of both Houses of Parliament, and to obtain a Bill which would enable them to work, when they were unable to buy, all the tramways of London. He had been contradicted before, and he would orobably be contradicted again, when he stated that he would probably be contradicted again, when he stated that municipal working meant municipal loss—it meant increased rates to the taxpayers and the putting into the hands of County Councils patronage which might be used injudiciously and to the detriment of good government. The County Council Bill managed, despite the strenuous opposition mines.

of the tramway companies, to get through all its stages in the House of Commons, and eventually it reached the House of Lords, just when Parliament dissolved. That Bill consequently, in common with others, was hung-up. He devoutly wished it had not only been hung-up, but also strangled. (Laughter,) It would come up in the next session of Parliament at the stage in which it was to be companied to the companied of the companied o

Mr. F. J. HORROCKS seconded the monto, which was unanimously.

In answer to a question, the Chairman said that the directors did not yet take the full amount of their fees, nor did they intend to until more presperous times had arrived. (Hear, hear.)

On the motion of the Chairman, seconded by Mr. W. Pering Paigr, a dividend at the rate of 2 per cent. per annum on the preferred ordinary shares was declared.

The proceedings concluded with a vote of thanks to the Chairman, directors, secretary, manager, and staff, on the motion of Mr. Harman, seconded by Mr. Jarvis.

Gold from Coal.—According to a contemporary, analyses have been made of 13 coal samples taken from the chief Witwaters-rand coal basin, comprising the Springs Colliery, Vogelfontein Colliery and Breakpan Colliery. Each sample consisted of a bag of 200 bbs. of coal, which was burnt separately, and the ashes of each of these bags were carefully analysed by a chemist. They produced from mere traces of gold to 9 dwts. 5 grains of gold per ton of coal. The mean between the extremes is 5 dwts., while the average of the 13 samples was upward of 3½ dwts. Similar researches are to be made on a much larger scale in Europe, in order to test the yield of gold by samples taken at 40 or 50 different places, and by several thorough analyses by different chemical methods, and the results will be known in not too long a time. too long a time.

AUSTRALIAN ANTIMONY. — Hillgrove, in the Peel and Ural'a mining district, produces the balk of the antimony won in New South Wales, the total quantity for the year being 632 tons, valued at £9480. Of that amount the Eleanora Company produced 472 tons of smelted antimony, valued at £7089, and 3394 ounces of gold; the Hillgrove Antimony Mining Company, 160 tons, valued at £2400. The value of the antimony raised in the colony to the end of 1894 was about £160,000.

COAL IN FRANCE.—The extraction of coal in the French Department of the Pas-de Calais in the first half of this year was 5,314,647 one, as compared with 5,331,534 tons in the corresponding period of tons, as compared with 5,331,534 tons in the corresponding period of 1894. The extraction effected in the Department of the Nord in the first half of this year was 2,451,746 tons, as compared with 2,469,037 tons in the corresponding period of 1894. The combined output of the two Departments in the first half of this year accordingly amounted to 7,766,393 tons, as compared with 7,800,571 tons in the corresponding period of 1894, showing a decrease of 34,178 tons this year. The largest production was, as usual, effected by the Anzin mines.

NOTES FROM ANDALUCIA.

PAPER ON THE CUPREOUS PYRITES DEPOSITS OF ANDALUCIA AND ALGARVE,

RETROSPECTIVE AND PROSPECTIVE.

Extracts and Notes from Mining Operations and Reports on these during the past 25 years.

By WILLIAM GUTHRIE BOWIE

(Continued from Page 1028)

TO doubt much derends upon the treatment adopted, or whether much has been exported as ore for sulphur and copier, whether a higher or lower return of copper s obtained, and what may yet be retained in the heaps in local treatment, either in a state that will not be recovered by our present treatment, or in that which will yet, if

slowly, be obtaine t.

It would appear that besides this over-ca'cu'ation of copper where already noted, there is another serious one in respect of what con really be obtained from the total contents of the ore in corper, and in order to show both these difficulties, and assist the co. per, and in order to show both the sedimenties, and a sist the renearks to be made under the headings of acquirement, development, and treatment, I will give a short relation of the returns from the best mine as to both quality and quantity of these or-s, both as illustrating that the others are still wors. these or-s, both as illustrating that the others are still wors, in respect of these estimations, and because the returns from Rio Tinto are the most detailed and accurate relations obtainable for a large quantity of ore. The Rio Tinto Company shows an extraction of 22,253,771 tons of ore, estimated to contain 635,633 tons of coper, indicating an average of 2.822 per cent. Cu. The copper produced and sold amounts to 386,590 tons, leaving 249,043 tons to be accounted for, either as lost in the allowances and losses on sales, treatment in their works in England, and at the mines, or partly still existing in the heave in treatment in Soain. The amount actually in their works in England, and at the mines, or partly still existing in the heaps in treatment in Spain. The amount actually realised indicates an average of about 1716 per cent. Cu for the total extraction of ore, leaving a further 1°006 per cent. Cu as lost, or partly yet to be recovered. If, however, we take the returns from the exported ores and those from local treatment, each apart, there is evidently a loss on that obtained from the exported ores, and which is not recoverable, but shows a higher recoverable, but shows a higher recoverable. exported ores, and which is not recoverable, but shows a higher average for this ore for copper obtained than that yielded as yet by the ore in treatment at the mines. The ore exported amounts to 6,335,455 tons, and has returned 135,857 tons of copper, equal to 2:144 per cent. On as the average yield of their export ore, and 0:678 per cent. On below the general average given for the total extraction. This shows a loss of at least 42,954 tons, or (say) 43,000 tons of copper on the ore exported. In some instances the exported ore has been poor incopper, and hence this class has been for sulphur alone, but it is only lataly. In some instances the exported ore has been poor in copper, and hence this class has been for sulphur alone, but it is only lately any quantity of poor copper ores has been shipped and hardly alters this loss; on the contrary, this should increase it, as the general average includes this ore also, and lowers the same in proportion, while the copper content in the poor or pyrites ores is generally not paid, but is entirely lost; hence it may be assumed that the ore exported would be much richer than the general average for

ore exported would be much richer than the general average for the total extraction from the mine, and that sent to local treatment would be equally somewhat below this general average. This is more evident by the actual returns of copper from local treatment where 16,031,497 tons of ore have produced 250,733 tons of copper, thus showing an average of 1.564 per cent. Cu, or, compared with the general average of 2.822 Cu, that, there are yet 1.258 per cent. Cu or 191,676 to 192,000 tons of copper still in the heaps, or partly lost, of which the 43,000 tons lost on that exported forms a part and reduces this reserve of copper accordingly. Besides the ore sent to local treatment there has been much cupreous material as schists, impregnated with copper rocks also treated, while the old Government heaps of ore and copper liquors from the mine, and rain washings of the ore exposed in the open-cast and similar works have gone to form a part of the 250,733 tons of copper produced at the mines, all which would tend to indicate that the copper in the ore sent to local treatment has still further losses, or a greater amount equal to that produced from these sources still greater amount equal to that produced from these sources still to be recovered. In the absence of estimations of the ore in local treatment showing the real value of this in copper, but seeing that processes have been used estimated to recover all the copper and sufficient time has elapsed to attain the maximum the copper and sufficient time has elapsed to attain the maximum yield of copper by calcination of natural vitriolisation and cementation for copper precipitate, it is evident that this ore sent to local treatment is much poorer in copper than the general average given for the total amount extracted, hence greater losses on the ore exported. It is somewhat difficult to arrive at a proper estimate of how much of this copper still in the heaps in local treatment can be profitably obtained, but seeing that calcination reduces much to a condition that will not yield its copper (by the present processes in use) with profit, and that there is a constant loss owing to the necessity of allowing the copper liquors to leave the canals and other cercentation tanks and works, with a good trace of copper in solution, and others from heavy rains, while losses of precipitate both in collecting and shipping up to sale losses of precipitate both in collecting and shipping up to a le are large, which, together with the Customs and uses of smelters, are inevitable. We may also surmise that that which can yet be attained will be far below the estimated content, and so far be attained will be far below the estimated content, and that produced to date from all sources is the only real practical guide as to a fairly quick and actual possibly profitable return from this class of pyrits for all the mnes—viz., 1.716 per cent. Cn during the past 25 years. (See works of J. H. Collins, Cu during the past 25 years. (See works of J. H. Collins, F.G.S., &c., and particularly The Mining Journal, 1893, page 1907, &c.) as to losses in calcination, liquors, &c.

By the above there is evidence that the former stimates have

not been realised, and that the average calculated should have been 1.716 per cent. On in place of 3 per cent. Cu, while the excessive amount of ore sent to local treatment and the increase of export of pyrites are evidences that the increased quantities now being extracted are poorer in copper, in a much greater proportion than was the case at the higher levels, and 1.564 per ent. C: is now nearer the general average of copper returns of

the resent day for all these mines.

The returns from the other mines indicate similar results, and there are instances of mines, with so badly prepared plant for local treatment, and such indifferent knowledge of metallurgy, that the ore extract d has only produced a mere trifle of its that the ore extract d has only produced a more trifle of its copper content, the other portion having been swept away into the streams, or so badly calcined as to become one mass of scories; thus this indifferent management also goes to confirm the higher value in copper when these mines were reopened, for, with all these drawbacks, far higher results were obtained on the average than is now the case, with greater care, preparation, and

(To be Continued.)

PROVINCIAL SHARE MARKETS.

THE CORNISH MINE SHARE MARKET.

R. SAMUEL JOHN DAVEY, Dealer in Cornish Mine Shares R. SAMUEL JOHN DAVEY, Dealer in Cornish Mine Shares, Redruth, Cornwall, reports under date of August 29 (12 o'clock) as follows:—Our market has been quiet this week, without much alteration, and there is not much doing to-day. Following are quotations:—B'ue Hills, 1s. 61. to 2s. 61.; Carn Brea, 2 to 2½; Dolcoath, 1s. 61, to 19s. 6d.; East Pool, 4 to 4; Killifreth, 11., to 13s.; South Crofty, \$\frac{1}{2}\$ to \$\frac{1}{2}\$; South Wheal F ances. 1 to 1½; Tincroft, \$\frac{1}{2}\$ to \$\frac{2}{3}\$; West Frances, \$\frac{3}{2}\$ to 1; West Kitty, 5 to 5\frac{1}{2}\$; Whal Basst, \$\frac{1}{2}\$ to 3; Wheal Grenville, 13\frac{1}{2}\$ to 13\frac{3}{2}\$; Wheal Kitty (St. Agnes), \$\frac{1}{2}\$ to \$\frac{3}{2}\$; Polberro, \$\frac{3}{2}\$ to 1; Dolcoath (partly paid), 91. to 1s. 61. prem

91. to 1s. 61. prem

Mr. Michael Williams Bawden, Mining and Assaying Offices, Liskeard, Cornwall, writes (August 29) as follows:—The mining market is without any special improvement. The tin standard is firmer, and advanced £1 during the week, but prices remain much the same. Closing prices:—Blue Hills, 2s. 61. to 3c.; Carn Brea, 2 to 2‡; Devon Console, 30s. to 31s. 61.; Dolonath, 20s. to 20. 61., fully paid; ditto, partly paid, 1s. to 1s. 61.; Drakewalls, 2s. to 2s. 64.; East Pool, 4 to 4‡; Killifreth, 11s. to 12s. 61.; Levant, 5 to 5‡; Polberre, 16s. to 14s.; South Frances, 1f. to 1‡; Tincroft, 8‡ to 8‡; West Frances, 1 to 1‡; West Kitty, 4‡ to 5; Wheal Basset, 2‡ to 2½; Wheal Grenvills, 13 to 13‡; Wheal Kitry, 9; to 10s.

Massrs, Abbott and Wickett, Stock and Share Brokers and

13 to 13½; Wheal Kitly, 94 to 104.

Messre, Abbott and Wickett, Stock and Share Brokers and Mining Share Dealers, Redruth, write under date of August 29:—
There has been some buying in Delocath this week, and the price has improved to 204 for the fully-paid and 1s, 91 to 24. 34 for the partly-paid, and a good many have changed hands, but most other shares have been neglected. Quotations herewith:—Blue Hills, 24. to 4c.; Carn Brea, 2 to 2½; Dolcoath (fully-paid), 194 6d.to 204 61; ditto (partly-paid), 1s. to 2s. prem.; East Pool, 3½ to 4½; Killifreth, 10s. to 12s.; Poblerro, ½ to 1; South Crofty, ½ to ½; South Frances, 1 to 1½; Tincroft, 8½ to 8½; West Frances, 1 to 1½; West Kitty, 4½ to 5½; Wheal Basset, 2½ to 2¾; Wheal Grenville, 13½ to 13¾; Wheal Kitty, ½ to ¾. Tin, 65½.

MANCHESTER.

MANCHESTER.

Messrs. Joseph R. and W. P. Baines, Stock and Share Brokers, Queen's Chambers, 7, Market-street, write August 29 (noon):—There is a distinct torn on the railway markets to record this week. Up to writing, all changes (notwithstanding that prices are not always at the best of the week) are all better, and some of the advances are very distinct in amount. Whilst home rails show numerous changes, many of which are well over 1 per cent, and Mexican Railway issues moved to about same eitent, the chief features of rise in the week are found in Canadians and Americans, and more particularly in the last named. In Americans, Denver Preference stand foremost with rise of \$5\frac{1}{2}\$, and several others show advances of \$3\text{ or \$3\text{ or \$2\$}\$ and the rest between \$1\$ and \$2\$. Trank issues range higher, from 3 in First Preference to \$1\$ in Ordinary, whilst Canada Pacifics are \$2\frac{3}{2}\$ better. Coming to daily changes, Friday 'a-t found home rails firm, and where changed to better prices. In Canadians, Trank issues were steady at the opening, and improved in small degree right down to the close. Canadian Pacifics fot altered. Americans, with Denver Preferred and Milwaukees to the fore, firm throughout. Grand Track issues amongst Canadians, also Mexican Railway issues, a little off latest best prices. On Tuesday, after the carrying-over had been got out of the way, buyers were in the ascendant in all departments of rails, but mostly so in Americans. This established higher figures all round, with (save for, perhaps, here and thore some little exception), last prices the best of the day. Yesterday the "boomette" continued. Ae regards home rails the "havy" lines were prominent. In Americans Denver Preference were exceptional, rising \$2\frac{2}{2}\$. Canadian issues and Mexicans, too, improved again. The improvement did not last quite the day out, as later some little off the best was, to be noticed in many instances. This morning hont parely miscalence on have been somewhat shorn of attention, and as

Foreigners better in many instances, the only adverse change being down in Uruguay Three and s-Half per Cent. Other departments but little altered. See list below:—

CONSOLS.— Higher, 3-16.
COLONIAL STOCKS, &C.—Higher. Cape of Good Hope Registered, 1; New South Wales Inscribed, \(\frac{1}{2}\).
COLONIAL STOCKS, &C.—Higher. Cape of Good Hope Registered, 1; New South Wales Inscribed, \(\frac{1}{2}\).
CORPORATION STOCKS AND DEBENTURES,—Higher. Blackburn Three and a-Half per Cent., 1; cluster, 1.—Lower, Southport Three and a-Half per Cent., 2; ditto, Three per Cent., 1; clitto, Five per Cent., \(\frac{1}{2}\); ditto, Three per Cent., \(\frac{1}{2}\); ditto, Four per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\); ditto, Four per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\).—Lower. Uruguay Three and s-Half per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\).—Lower. Uruguay Three and s-Half per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\).—Lower. Uruguay Three and s-Half per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\).—Lower. Uruguay Three and s-Half per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\).—Lower. Uruguay Three and s-Half per Cent., \(\frac{1}{2}\); Spanish Four per Cent., \(\frac{1}{2}\).—Lower. Uruguay Three and Salford \(\frac{1}{2}\).

BANKS.—Higher. Chartered, 3 16; Consolidated Gold Fields, 2\(\frac{1}{2}\); De Beers, \(\frac{1}{2}\); Londonderry, 3-16.—Lower. Bio Tintos, 1.16.

INSUBANCE.—Higher. Equitable Fire, 6d.; Thames and Mersey, 1.16d.—Lower. Liverpool, London, and Globe, \(\frac{1}{2}\); London and Lancashire Insurance, \(\frac{1}{2}\); Falstine, 1-16.

COAL, IRON, &C.—Higher. Bolckow Vaughan, £20 paid, 5-16; ditto, £12 paid, \(\frac{1}{2}\); Shobw Vale, \(\frac{1}{2}\); Sheepbridge A, \(\frac{1}{2}\); Sraveley C, \(\frac{1}{2}\).

C. 1. TELEGRAPHS AND TELEPHONES.—Higher, Eastern Extensions

Telegraphs and Telephones.—Higher. Eastern Extensions \$\frac{1}{2}\$; National Telephone, 1-16.

BREWERIES—Higher. Tamplin's, \$\frac{1}{2}\$; Yates' Preference, \$\frac{1}{2}\$.—

Lower. Allsopp's, \$1\frac{1}{2}\$: Hardy's, \$\frac{1}{2}\$; Threlfall's, \$1\$.

MISCELLANEOUS.—Higher: Bell's \$A^*\text{bestos}\$, \$\frac{1}{2}\$; Bovril. \$\frac{1}{2}\$; Bryant and May, \$\frac{1}{2}\$; Chadwick's, \$\frac{1}{2}\$; Henry's, \$1\$-16 to \$\frac{1}{2}\$; Kellner's, \$\frac{1}{2}\$; Manchester Carriage C, \$\frac{1}{2}\$; United Alkali, 9-16; Liverpool United Gas, \$A\$, \$2\$; Manchester Trost, 1s. to \$2^*\$; Suez Canal, \$2\$.—Lower: Pacific Steam, \$\frac{1}{2}\$; Ship Canal ordinary, 1-16; ditto Preference, 1-16 to \$\frac{1}{2}\$.

LATER (4 P.M.).—Home rails are irregular to-day—some up, some down, but no violent change on either side. The quick rise in Americans of the past few days has brought in some sellers to realise, and consequently prices have fallen away a bit to-day on art figures, compared with yesterday's close. Canadians are not altered to any quotable extent, nor are Mexicans.

SCOTCH MINING AND INDUSTRIAL COMPANIES SHARE MARKETS.

STIBLING .- Mr. J. GRANT MACLEAN, Stockbroker and Ironbroker (August 29), writes:—During the past week there has been a large amount of business done, notwith-tanding the holiday season and the intervening account. Transactions entered into are for September 12 account.

In shares of coal, iron, and steel companies the principal altera-tion is an advance in Steel Company shares from 65s, to 75s. African Coal are at 7s. 9d., Marbella 52s. 9d., and Niddrie 42s. In shares of copper concerns a fair amount of business has been

done, and prices are firm in sympathy with the market for the metal. Tharis have touched 105s. 6d., Arisona 66s. 9d., and Tinto 18 3-16, but are now all a little under these prices. Mason are at 61s. 3d. Dolcoath Tin, 19s. to 21s.

In shares of gold and silver mines a considerable amount of business has been done in South Africans and West Asstralians. Chartered have gradually improved from 6½ to 7½, and Consolidated Gold Fields Deferred show an important rise from 13 1-16 to 164. East Rand and Transwasl Gold, along with a number of Deep Levels, have been in favour. A section of the shareholders in Big Golden Quarry are agitating for a change in management. Broken Hill have only varied from 35s. to 37s.; a dividend of 1s, is payable September 18. Mysore have improved to 59s., as it appears their scopply of water has now been replenished by rains, and full work can go forward. Afrikander are at 63s. 9d.; African Becovery. 33s. 6d.; African Estates, 70s.; Achilles, 4s. 3d.; Big Blow, 35s.; Bember, 5s. 3d.; Buluwayo Gold Refs. 4s. 61.; Balkis Laad. 8s. 9d.; Bayley's Reward, 8s.; Cassel, 16s.; Caraila, 1s. 6d.; Central Exploration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 5ds. 3d.; Coetzestroom, 9s. 6d.; Civebration of West Australis, 6ds. 3d.; Section of West Australis, 6ds. 3d.; Goldonda, 2ds.; Rathery Booke, 2ds.; Civebration of West Australis,

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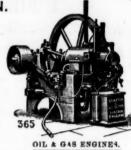
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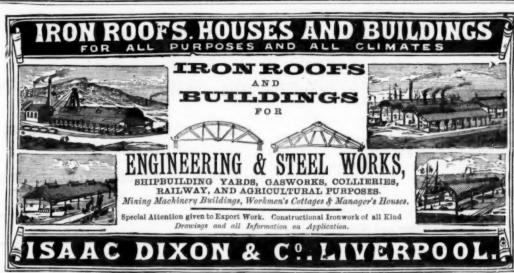
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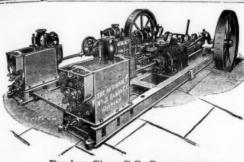
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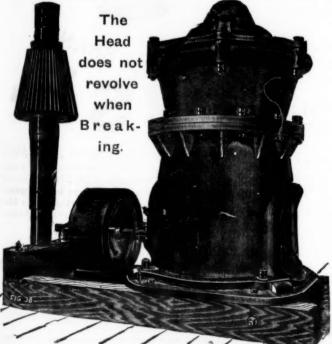
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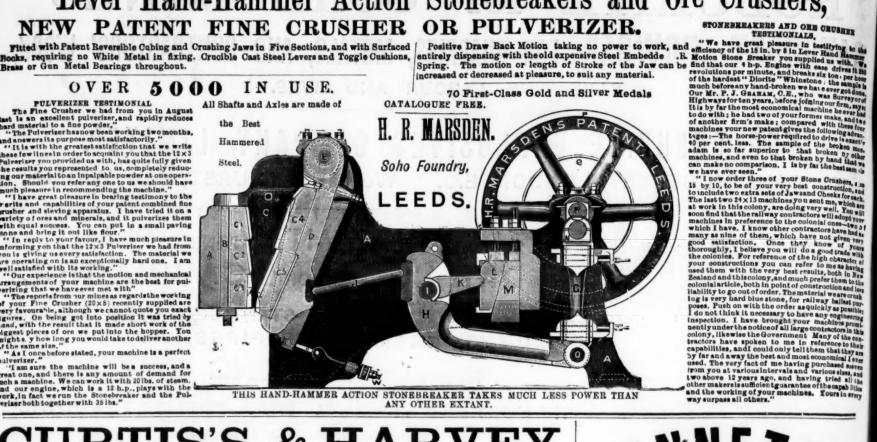
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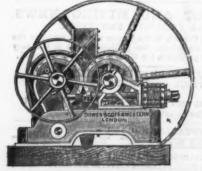
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